City of Worley, Idaho Wastewater Collection System Improvement

Section 595

FINDING OF NO SIGNIFICANT IMPACT

1. Background.

The City of Worley's (City) wastewater collection system was built in the 1960's and is comprised of concrete and PVC pipes with brick and concrete manholes, which are beyond their useful life. The system has deteriorated to a point where a large amount of Infiltration and Inflow (I&I) is entering the system. This causes partially treated wastewater to be discharged to Rock Creek when the influent wastewater cannot be retained in the lagoons long enough for adequate treatment. Additionally, the excess water from I&I dilutes the wastewater and decreases the efficiency of the treatment process.

2. Proposed Action.

Under this action, pipes and manholes would be replaced or repaired throughout the City. All work would occur within the City's rights of way. Work would include trenching and replacement or repair of existing systems. All activity would occur in previously disturbed soils or roadways. This project will provide immediate relief to an unmaintainable system that has become a liability to the City. Efficiency would increase, I&I would be addressed, and untreated effluent prevented from entering a stream.

The Seattle District, U.S. Army Corps of Engineers (Corps) funding for this project is authorized under Section 595 of the 1999 Water Resources Development Act, as amended. This authority allows the Corps to participate in projects for wastewater treatment, water supply, and related facilities in rural Nevada, Montana, Idaho, New Mexico, Utah, and Wyoming. This authority provides for reimbursement of up to 75 percent of the total project costs incurred by a non-Federal sponsor.

3. Impacts Summary.

No adverse impacts to cultural or natural resources are anticipated to occur. No impacts to wetlands or water quality would occur other than improvements to water quality in the stream from reduced sewage in the waterway. Federal and state endangered and threatened species would not be adversely impacted by the project, and all applicable Federal and state regulations would be met prior to the non-Federal sponsor's contract award for construction. The proposed project is anticipated to provide needed updates to the existing wastewater infrastructure in the City. Resource agencies and the public have no objections to the proposed action nor are there any unresolved issues.

4. Conclusion.

I find that the proposed action will not result in significant adverse environmental or cultural resource impacts and complies with all applicable laws, regulations, and agency and tribal consultations, including the National Historic Preservation Act, Clean Water Act, Endangered Species Act, and National Environmental Policy Act, as well as Executive Orders. Based on the analysis described above and provided in more detail in the accompanying Environmental Assessment, the City of Worley, Idaho Wastewater Collection System Improvement is not a major Federal action significantly affecting the quality of the human environment and, therefore, does not require preparation of an environmental impact statement.

23 JUN 17

JOHN G. BUCK

Colonel, Corps of Engineers

Commanding

Section 595 City of Worley Wastewater Collection System Improvement Project Environmental Assessment



CORPS OF ENGINEERS SEATTLE DISTRICT

and the

CITY OF WORLEY, KOOTENAI COUNTY, IDAHO

Environmental Assessment

PROJECT NAME: City of Worley Wastewater Collection System Improvement Project

PROJECT LOCATION: Worley, Kootenai County, Idaho

PROJECT DESCRIPTION

The City of Worley's (City) wastewater collection system was built in the 1960's and is comprised of concrete and PVC pipes with brick and concrete manholes, which are beyond their useful life. The system has deteriorated to a point where a large amount of Infiltration and Inflow (I&I) is entering the system. The consequence is partially treated wastewater being discharged to Rock Creek when the influent wastewater is not being retained in the lagoons long enough for adequate treatment. Additionally, the excess water from the I&I dilutes the wastewater and decreases the efficiency of the treatment process. This project will provide immediate relief to an unmaintainable system that has become a liability to the City.

PROJECT PURPOSE AND NEED

The purpose of the proposed action is to improve the wastewater collection system in the City. The need is to maintain a working wastewater system for public and environmental health.

AUTHORITY

U.S. Army Corps of Engineers funding for this project is authorized under Section 595 of the Water Resources Development Act of 1999, as amended. This authority allows the U.S. Army Corps of Engineers to participate in projects for wastewater treatment, water supply, and related facilities in rural Nevada, Montana, Idaho, New Mexico, Utah, and Wyoming. This authority provides for a Federal reimbursement of up to 75 percent of the total project costs. The non-Federal sponsor (The City of Worley) is responsible for providing the remaining 25% of total project cost along with other items such as all permits and designs and construction.

PUBLIC COORDINATION

A special council meeting was held on 06 March 2017 and a project description was provided to the public for comment. The notice was posted for two weeks (Attachment A). No comments were received.

ALTERNATIVES CONSIDERED

Two alternatives were considered, a No Action Alternative and the Preferred Alternative.

No Action Alternative

Under the No Action Alternative no changes to the city wastewater collection system would be done. The system would remain in a deteriorated state. Problems resulting from I&I and discharge of untreated water would continue unabated. Overall, the system would remain an inefficient wastewater system and a liability to the city.

Preferred Alternative

Under this action, pipes and manholes would be replaced or repaired throughout the city (Figure 1). All work would occur within the City's rights of way. Work would include trenching and replacement or repair of existing systems. All activity would occur in previously disturbed soils or roadways.

Under the preferred action the problems outlined above would be addressed. The system would become more efficient, I&I issues would be fixed, untreated effluent prevented, and the liability removed or reduced significantly. Project plans are found in Attachment B.

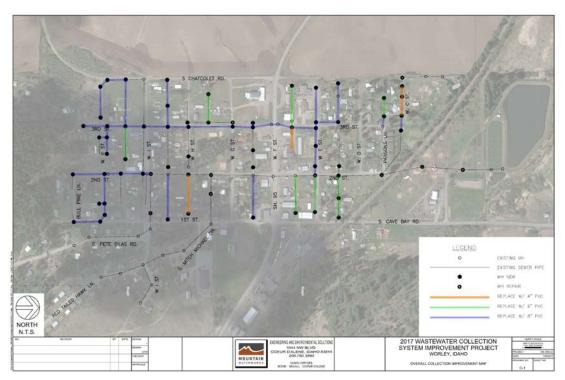


Figure 1. Proposed project overview.

POTENTIAL ENVIRONMENTAL IMPACTS

Summarized here is the analysis of pertinent environmental resources, laws, and regulations the Corps often examines during the National Environmental Policy Act (NEPA) process. Environmental Information and Documentation was provided by the City outlining environmental impacts (Attachment C).

Earth Resources

The City sits on top of Miocene basalt. This geological unit is part of the Columbia River Basalts Group which cover the rolling Palouse country of the southwestern part of Kootenai County. Soils in the project area consist primarily of silt loam. Soils within the project footprint consist of this silt loam and the original backfill from when the wastewater collection system was installed in 1960.

Under the No Action Alternative the system and earth resources would remain in their existing condition. Under the Preferred Alternative the soils in the project footprint would be disturbed and placed back after construction. No significant impacts are expected from either alternative.

Water Resources

The City of Worley is located south of Lake Coeur d'Alene and has multiple small streams and creeks in the surrounding area. North of the city are wastewater lagoons and Rock Creek. No waterways or wetlands are located within the project footprint. Additionally, the project is located outside of the 100 and 500 year floodplain.

Under the No Action Alternative the system and water resources would remain in their current condition. The system would continue to experience I&I from groundwater and discharge partially treated water to Rock Creek. Under the Preferred Alternative no inwater work would occur. After completion, I&I would be reduced and the issue of partially treated water discharges would be addressed. Additionally, the action would not violate the current National Pollutant Discharge Elimination System (NPDES) wastewater discharge permit during construction or on-going operations. No significant negative impacts to water resources would occur from the preferred action. Instead conditions would be improved.

Habitat and Wildlife

Waterways in the area can contain various species of trout, bull trout, kokanee, chinook, and bass. Terrestrial species include white-tailed deer, elk, moose, bear, mountain lion, and wolves. Most of the land surrounding the city is agricultural in nature. No designated wilderness areas are reported in the project footprint.

Under the No Action Alternative no impacts to habitat and wildlife are expected to occur. Under the Preferred Action repairs and replacement of the old wastewater system would occur in previously disturbed areas within the City. No valuable habitat would be disturbed that would significantly impact wildlife. Most of the project footprint is within roads, with some areas in landscaped areas. No significant negative impacts to habitat and wildlife are expected.

Air Quality and Noise

Air quality in the project is generally good. The project is in an attainment area and does not have a history of bad air quality. The project area is lightly populated with smaller communities surrounded by primarily agricultural lands. The major source of noise in the area is agricultural and transportation based.

Under the No Action Alternative air quality and noise levels would remain the same. Under the Preferred Action impacts to air quality and noise would be temporary and localized. Construction equipment would cause an increase in emissions for a short time, with no major impacts to air quality overall. No significant negative impact to air quality is expected.

Cultural Resources

The Corps has coordinated its review of cultural resources impacts under Section 106 of the National Historic Preservation Act (NHPA). The Corps has determined the area of potential effect (APE) for both direct and indirect effects to be the City of Worley Wastewater Collection System Improvement Project to include all areas identified for maintenance and replacement, as well as all access and staging areas. There have been no cultural resources identified in the APE.

Under the No Action Alternative no impacts to cultural resources would occur. Under the Preferred Action Alternative, no impacts to cultural resources would occur.

UNAVOIDABLE ADVERSE EFFECTS

Unavoidable adverse effects associated with the preferred alternative would be: (1) temporary and localized increases in noise, activity, and emissions, (2) temporary and localized disruption of local traffic by construction activity and vehicles, (3) irretrievable commitment of fuels and other materials for repairs, and (4) temporary removal of vegetation. Impacts would be short-term. Those unavoidable impacts are considered insignificant. Disturbed ground would be returned to pre-project condition.

CUMULATIVE EFFECTS

Cumulative effects include effects resulting from future Federal, State, tribal, local or private actions that are reasonably foreseeable to occur in the project area. No future projects are known at this time.

ENVIRONMENTAL COMPLIANCE

Environmental Information and Documentation was provided by the City outlining environmental impacts (Attachment C). The section below summarizes pertinent environmental laws and regulations the Corps often examines during the NEPA process. A checklist for environmental compliance is located in Attachment D.

National Environmental Policy Act

This Environmental Assessment (EA) has been prepared in accordance with the National Environmental Policy Act of 1969 (42 U.S.C. § 4321 et seq), which requires federal agencies to discuss the potential environmental impacts of their projects.

Endangered Species Act

In accordance with Section 7(a)(2) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. §§ 1531-1544), federally funded, constructed, permitted, or licensed projects must take into consideration impacts to federally listed or proposed threatened or endangered species. The project was examined for impacts to ESA listed species and their critical habitat by the Natural Resources Department of the Coeur d'Alene Tribe. It was determined that the proposed action is not likely to adversely affect endangered or threatened species or critical habitat. The Corps evaluated the project and has determined

that the proposed project would have no effect to any listed, threatened, or candidate species and their critical habitat.

Clean Water Act, (P.L.92-500, (33 U.S.C. §§ 1251, et seq.)

Activities do not include discharge or fill into waters of the U.S. Therefore, no Section 401 or 404 analysis of the CWA is necessary. A Section 402 Construction General Permit under National Pollutat Discharge Elimination System is to be obtained by the non-Federal sponsor's contractor.

Coastal Zone Management Act

The proposed project does not take place in a coastal county. Therefore, the Coastal Zone Management Act does not apply.

Bald and Golden Eagle Protection Act, 1940

The Bald and Golden Eagle Protection Act (16 U.S.C. § 668) prohibits the taking, possession or commerce of bald and golden eagles, except under certain circumstances. No known eagle nests are located nearby. The proposed action would not result in the take of either bald or golden eagles.

National Historic Preservation Act

Section 106 of the National Historic Preservation Act (16 USC 470) requires Federal agencies to take into account the effects of proposed federal undertakings historic properties included or eligible for the National Register of Historic Places. The implementing regulations for Section 106 (36 C.F.R. § 800) requires Federal agencies to consult with various parties, including the Advisory Council on Historic Preservation, the State Historic Preservation Office (SHPO), and Indian tribes, to identify and evaluate historic properties, and to assess and resolve effects to historic properties.

The Corps has determined that due to the limited nature of the undertaking, as well as the high level of disturbance from the original construction of the sewer and road system, there is little to no likelihood for cultural resources to be present within the project APE. While archival research indicates that the wastewater treatment system was originally installed in the 1960s and meets the minimum age threshold of 50 years, it has been subject to routine maintenance and repair actions. As the proposed repair does not alter the proposed alignment, the system infrastructure will remain intact. Based on this information, the Corps has found that there will be no historic properties affected by the proposed project. The Corps submitted a letter documenting the APE and its finding of no historic properties affected to the Coeur d'Alene Tribal Historic Preservation Officer (THPO) on May 5, 2017 (Attachment E). The THPO did not respond within 30 days.

Clean Air Act

The Clean Air Act (42 U.S.C.§§ 7401, et seq) requires states to develop State Implementation Plans (SIP), which document strategies to reduce or eliminate the severity and number of violations of National Ambient Air Quality Standards (NAAQS), with the goal of attaining the NAAQS. The act also requires federal actions to conform to the appropriate SIP. An action that conforms with a SIP is defined as an action that

Consolidated Environmental Assessment

would not: (1) cause or contribute to any new violation of any standard in any area; (2) increase the frequency or severity of any existing violation of any standard in any area; or (3) delay timely attainment of any standard or any required interim emission reductions or other milestones in any area. The Seattle District Corps has estimated that emissions associated with this project would not exceed EPA's *de minimis* threshold levels of 100 tons/year for carbon monoxide and 50 tons/year for ozone (40 CFR 93.153(b)) based upon this criteria, the proposed project is in compliance.

Executive Order 12898, Environmental Justice

Executive Order 12898 directs every federal agency to identify and address disproportionately high and adverse human health or environmental effects of agency programs and activities on minority and low-income populations. Since no adverse health or environmental effects are anticipated to result from the project, the Seattle District Corps has determined that no disproportional impacts to minority or low-income populations would occur.

Other Environmental Requirements

There would be no in-water work. Actions are not expected to adversely affect fish or marine mammal populations or their critical habitat under the Magnuson-Stevens Conservation Fisheries Act of 1996 and the Marine Mammal Protection Act of 1972. The proposed project is in compliance with the Fish and Wildlife Coordination Act. The project does not facilitate floodplain development and is in compliance with Executive Order 11988, Floodplain Management, 1977. The proposed project is not located in a wetland and is in compliance with Executive Order 11990, Protection of Wetlands, 1977.

CONCLUSION

In light of the minor expected effects, the preferred alternative would not generate significant impacts on the quality of the human environment, and thus the preparation of an Environmental Impact Statement is not required.

Project: Worley Wastewater Collection System Improvement Consolidated Environmental Assessment

June 2017

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ATTACHMENTS

Attachment A: Public Notice Attachment B: Project Plans

Attachment C: Environmental Information and Documentation

Attachment D: Environmental Compliance Checklist

Attachment E: Corps Letter to THPO

Attachment A Public Notice

PUBLIC NOTICE CITY OF WORLEY, IDAHO WASTEWATER COLLECTION SYSTEM IMPROVEMENT PROJECT

The City of Worley is proposing to improve wastewater collection system for the city. The proposed improvements would occur to the existing system located entirely within the City's right of way.

The wastewater collection system was built in the 1960's and is comprised of concrete and PVC pipes with brick and concrete manholes, which are beyond their useful life. The system has deteriorated to a point where a large amount of Infiltration and Inflow is entering the system. The consequence is partially treated wastewater being discharged to Rock Creek when the influent wastewater is not being retained in the lagoons long enough for adequate treatment. Additionally, the excess water from the dilutes the wastewater and decreases the efficiency of the treatment process. This project will provide immediate relief to an unmaintainable system that has become a liability to the City.

The project is partially funded by Section 595 of the 1999 Water Resources Development, entitled the "Rural Idaho, Nevada and Montana Environmental Infrastructure Resources Protection and Development Program", as amended, provides authority to the U.S. Army Corps of Engineers to participate in wastewater treatment and water supply and related facilities in rural Nevada, Montana, Idaho, New Mexico, Utah and Wyoming. This authority provides for Federal funds to reimburse the non-Federal Sponsor up to 75% of the total project costs.

The City of Worley invites comments on the proposed project. All comments received by the date listed below will be considered.

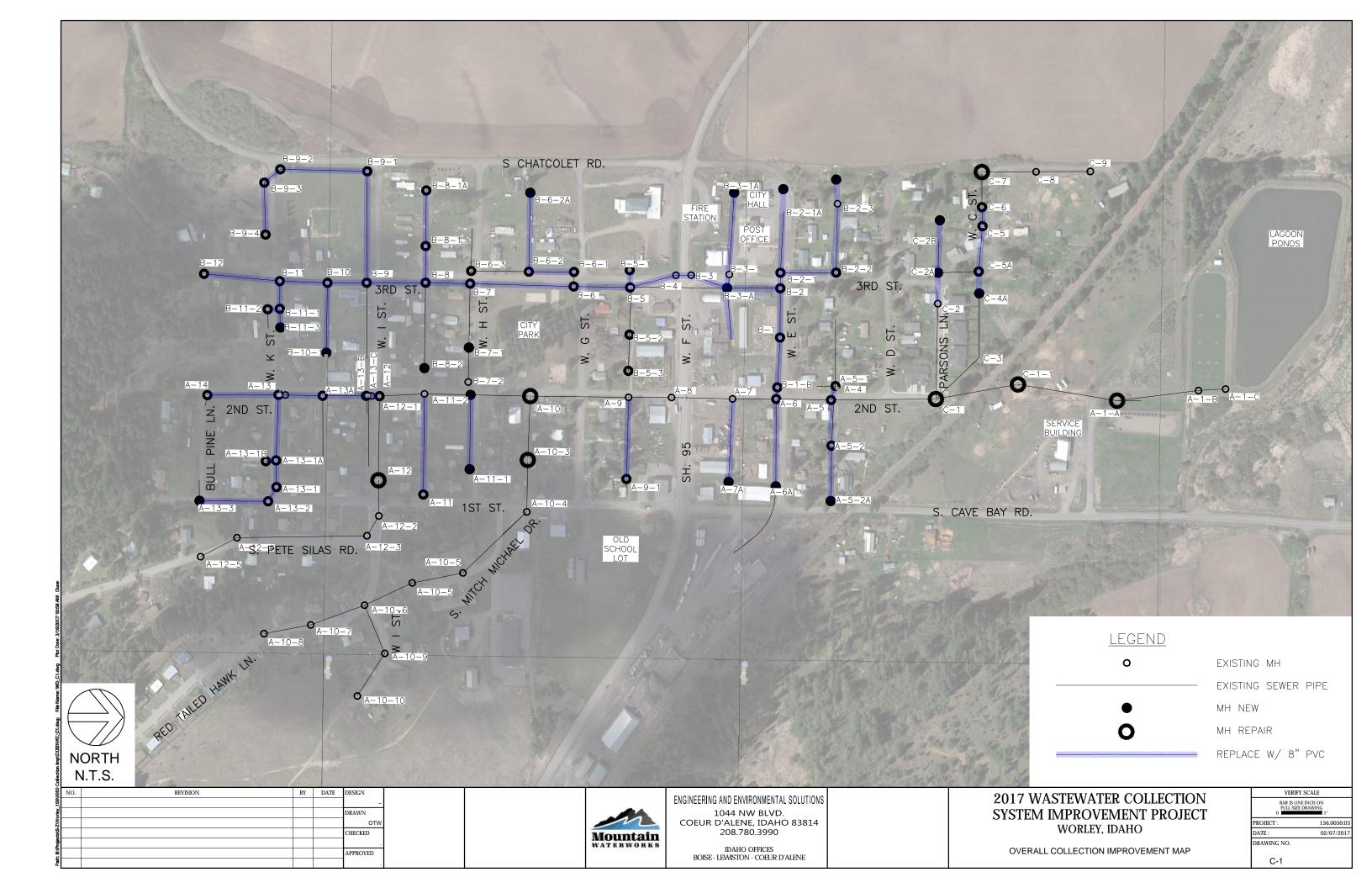
To submit comments, send an email to:

khill@mountainwtr.com

All comments m

20, 2017 to be of

All comments must be received by March 20, 2017 to be considered



Attachment B Project Design Plans

CITY OF WORLEY

KOOTENAI COUNTY, IDAHO

2017 WASTEWATER COLLECTION SYSTEM IMPROVEMENT PROJECT

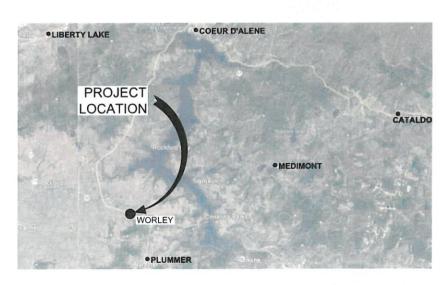
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LOCATION MAP

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W PRIMIPATOR

Mountain WATERWORKS ENGINEERING AND ENVIRONMENTAL SOLUTIONS

1044 NW BLVD.

COEUR D'ALENE, IDAHO 83814
208.780.3990

IDAHO OFFICES BOISE · LEWISTON · COEUR D'ALENE

VICINITY MAP

2017 WASTEWATER COLLECTION SYSTEM IMPROVEMENT PROJECT WORLEY, IDAHO

8

0 FULL SIZE	DRAWING 1"
PROJECT :	156.0050.03
DATE :	02/07/2017

GENERAL NOTES:

- CONFORM TO THE PROJECT SPECIFICATIONS AND/OR THE REQUIREMENTS OF THE LATEST EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), FEDERAL, STATE, AND LOCAL REQUIREMENTS. IN THE CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- 2. ALL APPROVALS AND PERMITS REQUIRED BY THE IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY, UNITED STATES DEPARTMENT OF AGRICULTURE RURAL DEVELOPMENT, UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AND UNITED STATES ARMY CORPS OF ENGINEERS SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- 3. EXISTING SITE INFORMATION INCLUDING THE LOCATION OF EXISTING SITE CONDITIONS, SURFACE TOPOGRAPHY AND PROJECT BENCHMARKS AS SHOWN ON THESE PLANS HAVE BEEN PROVIDED BY H2 LAND SURVEYING THROUGH FIELD WORK PERFORMED IN THE FALL OF 2016. THE EXISTING SITE INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND SHALL BE FIELD VERIFIED BY CONTRACTOR CONSTRUCTION SURVEY PRIOR TO THE START OF ANY PROJECT CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION STAKING.
- 4. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. THE PROJECT ENGINEER ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES, OR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY EXACT LOCATIONS OF EXISTING UTILITIES PRIOR TO THE START OF ANY PROJECT CONSTRUCTION. ANY LOCATION WHICH MAY POSE A CONFLICT WITH THE PROPOSED CONSTRUCTION MUST BE REPORTED TO THE PROJECT ENGINEER PRIOR TO THE START OF ANY PROJECT
- WATER MAINS AND NON-POTABLE MAINS (SEWER, STORM DRAIN AND IRRIGATION) SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET AND A MINIMUM VERTICAL SEPARATION OF 18 INCHES. REFER TO ISPWC SD-407 "NON-POTABLE WATER LINE (NPWL) SEPARATION" FOR ADDITIONAL INFORMATION.
- 6. UNLESS DETAILED, SPECIFIED, OR OTHERWISE INDICATED ON THE DRAWINGS, CONSTRUCTION SHALL BE AS INDICATED ON THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS SHALL APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS.
- 7. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF WORK, DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- B. ANY CHANGES TO THE DESIGN AS SHOWN IN THESE CONSTRUCTION DRAWINGS MUST BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER BEFORE CHANGES ARE MADE. THIS INCLUDES CHANGES REQUESTED BY THE OWNER AND SUBCONTRACTORS.
- ALL SEWER MAIN LINES AND MANHOLES CONSTRUCTED AS PART OF THIS WORK SHALL BE AIR/VACUUM TESTED IN ACCORDANCE WITH ISPWC.
- 10. ALL SEWER MAIN LINES CONSTRUCTED AS PART OF THIS WORK SHALL BE HYDROCLEANED AND TV'ED UPON COMPLETION IN ACCORDANCE WITH ISPWC. THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF ALL REPORTS TO THE DESIGN ENGINEER FOR REVIEW PRIOR TO ACCEPTANCE BY THE CITY OF WORLEY.
- 11. CONTRACTOR SHALL MAINTAIN A COPY OF THE IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY APPROVED PLANS AND SPECIFICATIONS ON—SITE AT ALL TIMES.
- 12. THE CONTRACTOR SHALL CALL DIG LINE (800-342-1585) TO LOCATE ALL EXISTING UTILITIES AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.

- 13. THE CONTRACTOR SHALL NOTIFY THE CITY OF WORLEY A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DISRUPTING SEWER OR WATER SERVICE.
- 14. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING UTILITIES, AND SHALL REPAIR DAMAGES IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. COMPLY WITH IDAHO STATE CODE SECTION 55-2201 ENTITLED "UNDERGROUND FACILITIES DAMAGE PREVENTION". CONTACT DIG LINE AT LEAST FOUR (4) DAYS BEFORE ANY EXCAVATION WORK TO IDENTIFY ANY UNDERGROUND UTILITIES PRIOR TO EXCAVATION. IDAHO DIG LINE PHONE "DIAL 811" OR (800)392-1585.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS, OTHER SURVEY MARKERS, STREET SIGNS, UTILITIES, IRRIGATION LINES, PAVEMENT, TREES, FENCES, AND ANY OTHER IMPORTANT OBJECTS ON OR ADJACENT TO THE JOB SITE NOT DESIGNATED TO BE REMOVED. MISCELLANEOUS ITEMS REQUIRED TO BE TEMPORARILY RELOCATED SHALL BE BE REPLACED IN KIND OR RETURNED TO AN EQUAL OR BETTER THAN PRE—EXISTING CONDITION AND SHALL BE CONSIDERED INCIDENTAL TO THE WORK. NO SEPARATE PAYMENT SHALL BE MADE.
- 16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES.
- 17. CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER WITH ONE COPY OF REDLINED AS—BUILT DRAWINGS PRIOR TO PROJECT ACCEPTANCE.
- 18. THE CONTRACTOR SHALL NOTIFY THE CITY OF WORLEY AND THE PROJECT ENGINEER A MINIMUM OF FOURTY—EIGHT (48) HOURS PRIOR TO ANY SEWER PIPELINE TESTING, TV WORK AND THE POURING OF CONCRETE COLLARS.
- 19. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL REQUIREMENTS AS REQUIRED BY THE CITY OF WORLEY OR THE IDAHO DEPARTMENT OF TRANSPORTATION. SCHEDULE WORK TO MINIMIZE DISRUPTION OF TRAFFIC. TRAFFIC CONTROL MUST BE IN-PLACE PRIOR TO CONSTRUCTION. THE OWNER MUST BE GIVEN 3 CALENDAR DAYS NOTICE FOR ANY ROAD OR INTERSECTION CLOSURE OR RESTRICTIONS.
- 20. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY INCLUDING, BUT NOT LIMITED TO, SAFE WORKING PRACTICES WITHIN AND AROUND THE CONSTRUCTION AREA. IN ADDITION, JURISDICTIONAL AGENCIES, THE OWNER AND THE PROJECT ENGINEER SHALL NOT BE RESPONSIBLE FOR ENFORCING SAFETY REGULATIONS.
- 21. CONTRACTOR IS REQUIRED TO PAY FOR ALL COMPACTION TESTING, INCLUDING NUCLEAR DENSITY TESTING OF THE SUBGRADE, SUBBASE, BASE COURSE AND ASPHALT, AND THE COST ASSOCIATED WITH PROCTORS FOR THE BASE COURSE MATERIAL AND ASPHALT PAVEMENT. TESTING SHALL BE CONDUCTED BY AN INDEPENDENT THIRD PARTY.
- 22. THE SEWER COLLECTION SYSTEM IS THE CITY OF WORLEY'S ONLY MEANS OF CONVEYING DOMESTIC WASTEWATER FROM INDIVIDUAL PRIVATE RESIDENCE'S TO THE WASTEWATER TREATMENT FACILITY. IMPAIRING THE OPERATIONAL CAPABILITIES OF THIS COLLECTION SYSTEM WILL RESULT IN DISRUPTION OF SEWER DISCHARGE FROM THE INDIVIDUAL SEWER SYSTEM USERS IN THE CITY.
- 23. CONDUCT WORK IN A MANNER THAT WILL NOT IMPAIR THE OPERATIONAL CAPABILITIES OF ESSENTIAL ELEMENTS OF THE COLLECTION SYSTEM.
- 24. LIMIT THE DURATION OF COLLECTION SYSTEM DISRUPTION TO INDIVIDUAL USER TO A SINGLE DAY DURING APPROVED WORK HOURS.
- 25. THE COLLECTION SYSTEM IS CONSIDERED OPERATIONAL WHEN THE ALL INDIVIDUAL USERS CAN FLOW SEWAGE FROM THE RESIDENT TO THE LAGOONS.

- 26. CONTRACTOR SHALL PROVIDE BYPASS PUMPING AS NECESSARY. BACKED UP SEWAGE RESULTING IN A SPILL, OVERFLOW OR CUSTOMER DISTRESS SHALL NOT BE ALLOWED. ANY DAMAGES AND/OR PENALTIES RESULTING FROM SEWAGE BACKUPS OR OVERFLOWS SHALL BE BORNE AND REMEDIED BY THE CONTRACTOR AT THEIR EXPENSE AND SHALL NOT RESULT IN ADDITIONAL COST TO THE OWNER.
- 27. NO CITY COLLECTION SYSTEM USER WILL BE WITHOUT SEWER SERVICE LONGER THAN PERMITTED WORK HOURS OR 10 HOURS IN ANY GIVEN DAY BETWEEN THE HOURS OF 8:00 AM AND 6:00 PM. IF CONSTRUCTION REQUIRES LONGER DISRUPTION OF SERVICE THE CONTRACTOR WILL COORDINATE WITH THE CITY AND ENGINEER 24 HOURS IN ADVANCE. THE CONTRACTOR WILL INSTALL TEMPORARY FACILITIES TO PROVIDE SEWER SERVICE TO INDIVIDUAL RESIDENCES DURING NON-PERMITTED WORK HOURS.
- 28. THE CONTRACTOR SHALL MAINTAIN AND ENSURE THAT ALL EXISTING WASTE WATER CONVEYANCE SYSTEMS AND ALL OTHER WASTE WATER FACILITIES ADJACENT TO THE WORK CONTINUE FUNCTIONING UNTIL THE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING. THE CONTRACTOR SHALL PROVIDE TEMPORARY WASTE WATER FACILITIES IF NEEDED TO ACCOMMODATE THE WORK, AS APPROVED BY THE OWNER. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER IF SUCH TEMPORARY FACILITIES ARE REQUIRED.
- 29. THE SEWER SERVICE LATERAL LOCATIONS WILL BE FIELD FIT ON AN AS NEED BASIS. THE LOCATIONS SHOWN ON THE DRAWING ARE GENERAL AND SUBJECT TO CHANGE.
- 30. SEWER SERVICE LATERALS IN GENERAL ARE 4-INCH DIAMETER. SERVICE LATERALS WILL BE REPLACED WITH A MINIMUM PIPE DIAMETER OF 4-INCH. SERVICE PIPE WILL BE PVC SDR 35. ANY EXISTING SERVICE LATERAL GREATER THAN 4-INCH WILL BE INSTALLED WITH A PIPE DIAMETER TO MATCH EXISTING.
- 31. ALL CONTRACTORS, SUBCONTRACTORS AND/OR UTILITY CONTRACTORS SHALL ATTEND A PRE—CONSTRUCTION CONFERENCE WITH THE CITY A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO START OF WORK.
- 32. ALL MATERIAL FURNISHED ON OR FOR THE PROJECT MUST BE NEW AND MEET THE MINIMUM REQUIREMENTS AS SET FORTH HEREIN. CONTRACTORS MUST FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THESE REQUIREMENTS. SEE TECHNICAL SPECIFICATIONS FOR REQUIRED SUBMITTALS AND QUALITY ASSURANCE PROGRAM REQUIREMENTS.
- 33. CONTRACTOR SHALL FURNISH AND INSTALL EVERYTHING REQUIRED TO PROVIDE COMPLETE AND OPERABLE FACILITIES AS SHOWN HEREON. IF THERE IS AN OMISSION ON THE PLANS, SUCH OMISSION SHALL NOT BE CONSTRUED TO MEAN THAT THE CONTRACTOR IS NOT REQUIRED TO FURNISH OR PROVIDE EVERYTHING THAT IS NECESSARY TO PROVIDE COMPLETE AND OPERABLE FACILITIES
- 34. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL WORK CONSTRUCTED BY THEM UNTIL THE WORK IS ACCEPTED BY THE OWNER FOR CONTINUOUS OPERATION AND MAINTENANCE.
- 35. THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING, TEMPORARY SHORING AND WATER/EROSION CONTROL REQUIRED DURING CONSTRUCTION TO INSURE THE STABILITY AND SAFETY OF ALL CONSTRUCTION. SHORING, INCLUDING ALL MATERIALS, DESIGN, INSTALLATION AND REMOVAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS FOR ALL SHORING AND RELATED WORK SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE
- 36. THE CONTRACTOR IS TO OBTAIN ALL APPLICABLE PERMITS NOT PROVIDED BY THE OWNER. COPIES OF CONTRACTOR OBTAINED PERMITS SHALL BE PROVIDED TO THE OWNER.
- 37. FOUNDATION PREPARATION AND STRUCTURAL FILL WORK SHALL ONLY BE DONE DURING DRY WEATHER CONDITIONS WITH ABOVE FREEZING TEMPERATURES.

38. UNLESS OTHERWISE DIRECTED, ALL EXISTING STRUCTURES, CONCRETE SLABS, AND OTHER MISC. ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF OFFSITE BY THE CONTRACTOR. ALL EQUIPMENT SHALL BE RETURNED TO THE CITY.

EROSION AND SEDIMENT CONTROL NOTES:

- PRIOR TO START OF CONSTRUCTION, A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED BY THE CONTRACTOR. ALL CONTRACTORS WILL BE REQUIRED TO ADOPT AND FOLLOW ALL REQUIREMENTS SET FORTH IN THE SWPPP. THE SWPPP WILL BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES/STORWMATER BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- 3. THE IMPLEMENTATION OF THESE EROSION AND SEDIMENT CONTROL MEASURES INCLUDING CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THIS PLAN IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL PROJECT CONSTRUCTION IS COMPLETED AND APPROVED BY THE OWNER. THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AFTER THE PROJECT IS APPROVED.
- 4. ALL EROSION CONTROL BMP'S SHALL BE INSTALLED PRIOR TO THE START OF ANY PROJECT CONSTRUCTION OR EARTH DISTURBING ACTIVITIES AND SHOULD REMAIN IN PLACE UNTIL ALL DISTURBED/EXPOSED AREAS HAVE BEEN STABILIZED AND/OR REVEGETATED.
- 5. ALL STORMWATER, EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION
- 6. WORK ACTIVITIES SHALL TAKE PLACE IN GRADING LIMITS AS SHOWN ON THESE PLANS. CONTRACTOR SHALL PRESERVE NATURAL LANDSCAPE OUTSIDE OF CONSTRUCTION LIMITS.
- 7. DURING CONSTRUCTION CONTRACTOR SHALL SPRINKLE ALL DISTURBED AREAS AS NECESSARY FOR DUST ARATEMENT
- 8. CONTRACTOR SHALL STOCKPILE TOPSOIL REMOVED DURING CONSTRUCTION ONSITE AND REUSE/DISTRIBUTE OVER GRADED AREAS PRIOR TO RESEEDING.
- 9. ALL SLOPE AND OUTLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER GRADING.
- TOPSOILING AND RESEEDING OF ALL DISTURBED AREAS
 TO BE COMPLETED IMMEDIATELY AFTER GRADING USING A
 NATIVE SEED MIXTURE.
- 11. ALL CULVERTS TO HAVE A MINIMUM OF 18" OF COVER.

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1044 NW BLVD.

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208.780.3990

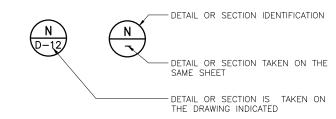
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GENERAL NOTES

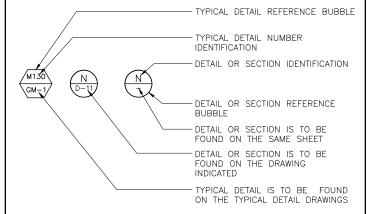
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LINE LEGEND





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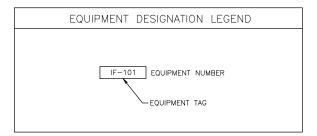
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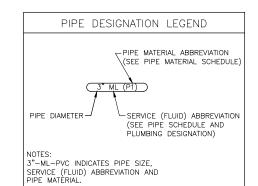




CROSS SECTION



ABBREV.	SERVICE	FITTINGS
B1	BLACK IRON PIPE	BLACK IRON, CLASS 300, ASTM 197, A 197M, NPT
C1	CONCRETE PIPE	NONE
C6	HUBLESS CAST IRON PIPE	CAST IRON, ASTM A 74
C7	HUB AND SPIGOT CAST IRON SOIL PIPE	CAST IRON, ASTM A 74
CU1	COPPER, SOFT TEMPERED, TYPE "K"	COPPER, SOLDERED JOINTS
CU2	COPPER, HARD TEMPERED, TYPE "L"	COPPER, SOLDERED JOINTS
D1	DUCTILE IRON, AWWA C150/151, PC150, CEMENT MOTAR LINED, RESTRAINED	DUCTILE IRON, AWWA C110, CL 150
D2	DUCTILE IRON, AWWA C150/151, PC150, CEMENT MOTAR LINED, UNRESTRAINED	DUCTILE IRON, AWWA C110, CL 150
D3	DUCTILE IRON, AWWA C150/151, PC 350	DUCTILE IRON, AWWA C110, CL 350
D4	DUCTILE IRON, AWWA C150/151, PC150, GLASS LINED	DUCTILE IRON, AWWA C110, CL 150
P1	POLYVINYL CHLORIDE, SCH. 80	PVC SCH 80, SOLVENT WELD SOCKET
P2	POLYVINYL CHLORIDE, SCH. 40	PVC SCH 40, SOLVENT WELD SOCKET
P3	POLYVINYL CHLORIDE, SDR 35, ASTM 3034 (PS46, ASTM F679)	POLYVINYL CHLORIDE, SDR 35 ASTM 3034
P4	POLYVINYL CHLORIDE, AWWA C900, DR18	DUCTILE IRON, AWWA C110, CL150
P5	CHLORINATED POLYVINYL CHLORIDE, SCH. 80	CPVC, SCH. 80, SOLVENT WELD SOCKET
P7	HIGH DENSITY POLYPROPYLENE, MIN. SDR 7.3	HDPE
P8	NALGENE 980 BRAIDED VIYNL TUBING, OR EQUAL	
P9	POLYVINYL CHLORIDE, PIP 100 PSI	PVC PIP100 PSI
P10	HDPE IPS SDR 32.5 ASTM D335 PE 3408	HDPE IPS SDR 32.5 ASTM D3350 P3408
P11	HDPE SINGLE WALL CORRUGATED PERFORATED PLASTIC DRAIN PIPE ASTM-F-667-'C"	NONE
P12	HDPE, AWWA C901, DR9	HDPE
S1	STEEL, SCH. 40 GALVANIZED	THREADED OR FLANGED, GALVANIZED
S2	WELDED STEEL, AWWA C200, MORTAR LINED AND COATED	STEEL, AWWA C208, MORTAR LINED
S3	WELDED STEEL, AWWA C200, MORTAR LINED AND EPOXY COATED	STEEL, AWWA C208, MORTAR LINED
S4	STAINLESS STEEL, TYPE 304L OR 316L, SCH. 5	STAINLESS STEEL
S5	STAINLESS STEEL, TYPE 304L OR 316L, SCH. 10	STAINLESS STEEL
S6	STAINLESS STEEL, TYPE 304L OR 316L, SCH. 40	STAINLESS STEEL
S7	STAINLESS STEEL, ALLOY 20	STAINLESS STEEL, ALLOY 20
S8	STEEL, ASTM A106 OR 53, SCH. 80, SEAMLESS, BLACK	THREADED, SOCKET, BUTT-WELD OR FLANGED W/ AMMONIA UNIONS
S9	STEEL, ASTM 53, SCH. 40, BLACK, NATURAL GAS	MALLEABLE 150 PSI THRD. 2-INCH OR SMALLER, GREATER THAN 2-INCH WE
S10	STEEL, ASTM 53, SCH. 10	THREADED, SOCKET, BUTT-WELD OR FLANGED W/ AMMONIA UNIONS
S11	CORRUGATED METAL PIPE	NONE



ABBREV.	SERVICE	TEST METHOD	TEST PRESSURE (PSI)
AS	AIR SCOUR OR AIR AGITATION	AM	15
CD	CENTRATE DRAIN	GR	5-6.5
CON	CONDUIT	AM	5
DR	DRAIN	AM	5
EFF	EFFLUENT	HH	150
FE	FILTER EFFLUENT	HH	150
HWS	HOT WATER SUPPLY	HH	100
IRR	IRRIGATION WATER	HH	100
ML	MIXED LIQUOR	HH	150
OF	OVERFLOW	LH	20
PA	PLANT AIR	НН	150
PC	PRESSURE CENTRATE	HH	150
PR	PRESSURE REUSE	НН	150
PS	PRESSURE SEWER	HH	150
PW	POTABLE WATER	HH	150
RAS	RETURN ACTIVATED SLUDGE	НН	150
RW	RAW WATER	GR	6.5
SA	SAMPLE	HH	100
SC	SUCTION CENTRATE	HH	150
SD	STORM DRAIN	GR	6.5
SE	SECONDARY EFFLUENT	HH	150
SH	SODIUM HYPOCHLORITE	HH	125
SS	SANITARY SEWER	GR	5-6.5
ST	SODIUM THIOSULFATE	HH	125
UW1	UTILITY WATER TYPE 1 (POTABLE)	HH	150
UW2	UTILITY WATER TYPE 2 (NON-POTABLE)	HH	150
VNT	VENT	AM	15
WAS	WASTE ACTIVIATED SLUDGE	НН	150

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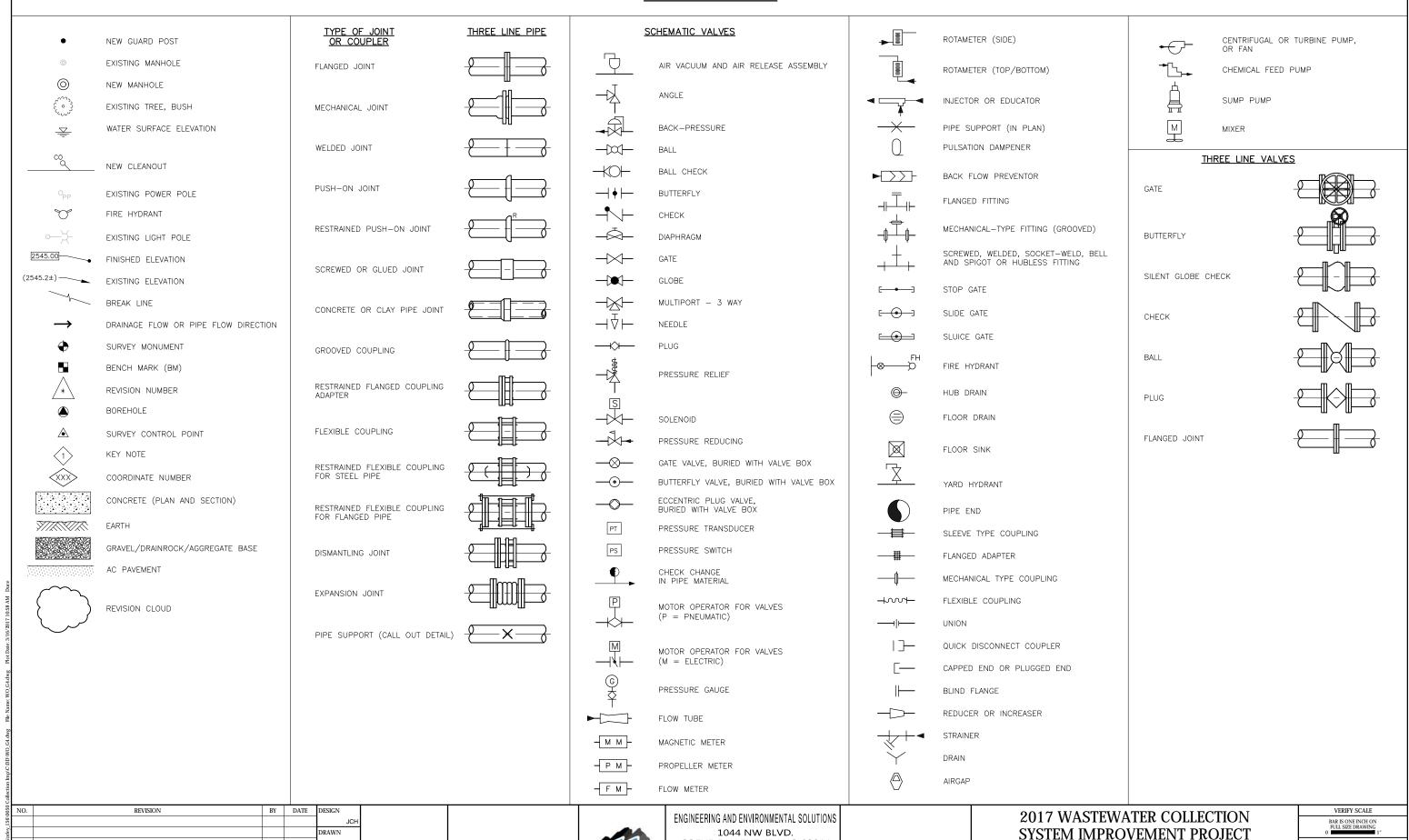
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LINE LEGEND / PIPE SCHEDULE

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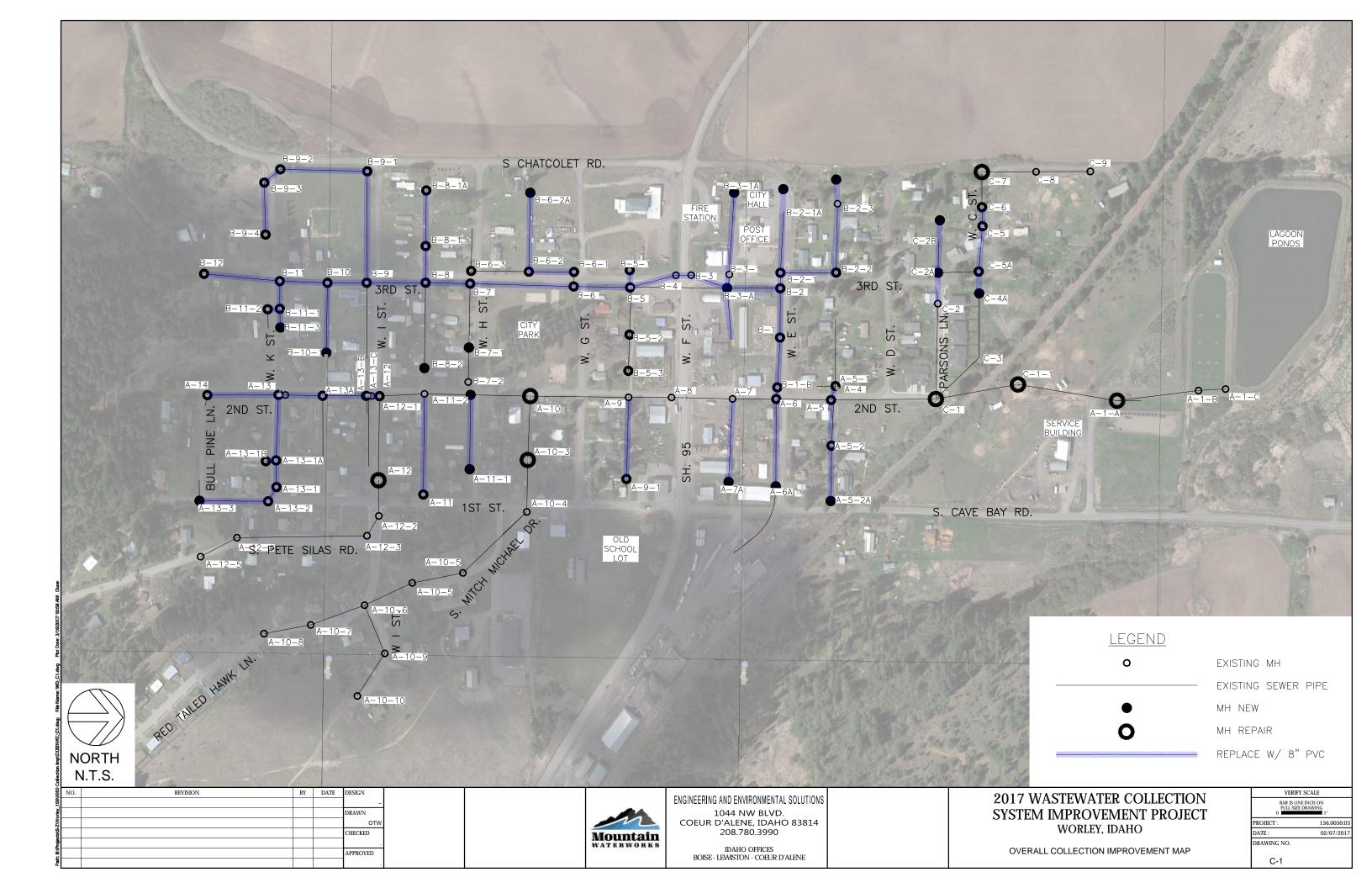
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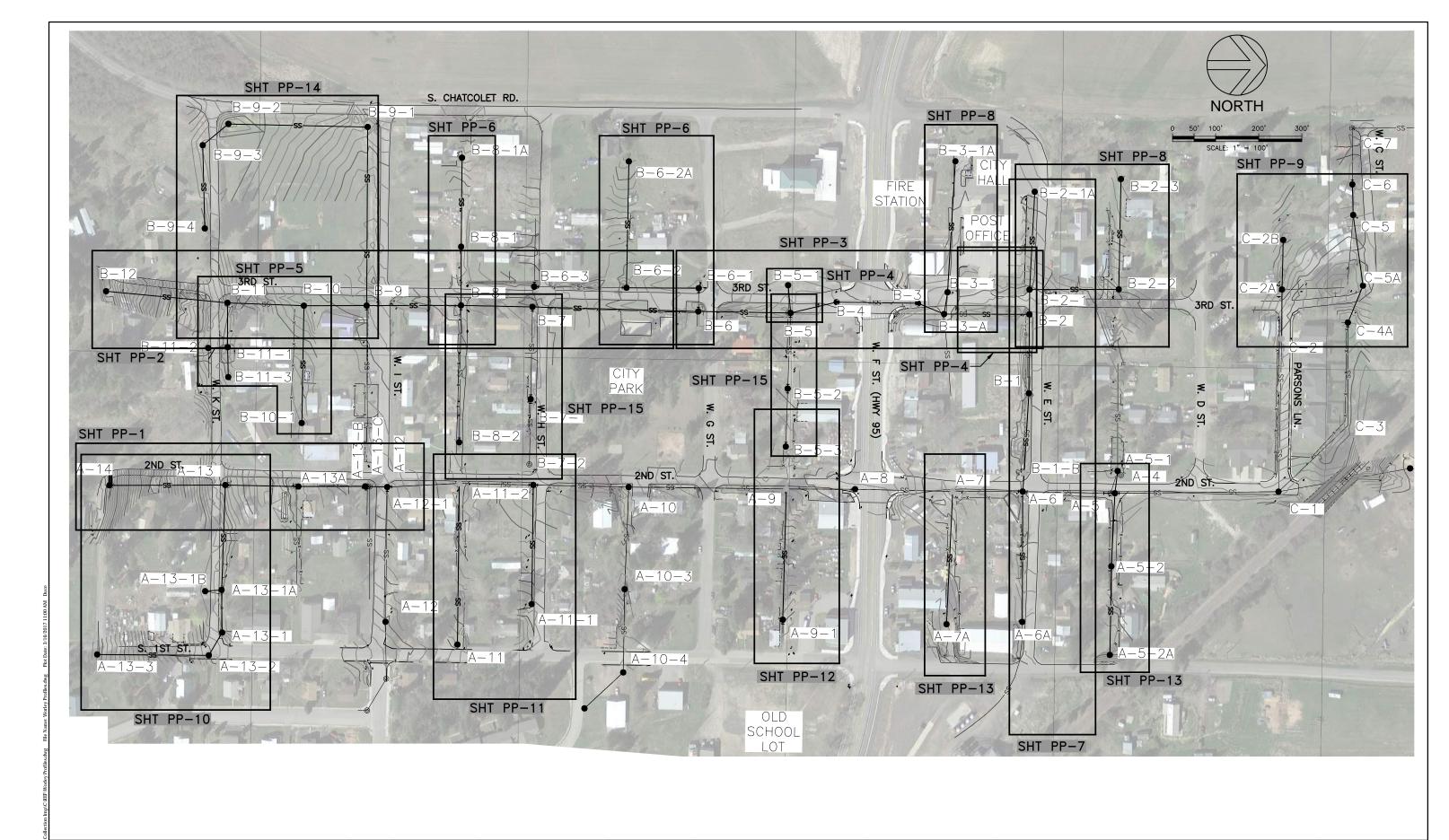
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LEGEND AND SYMBOLS





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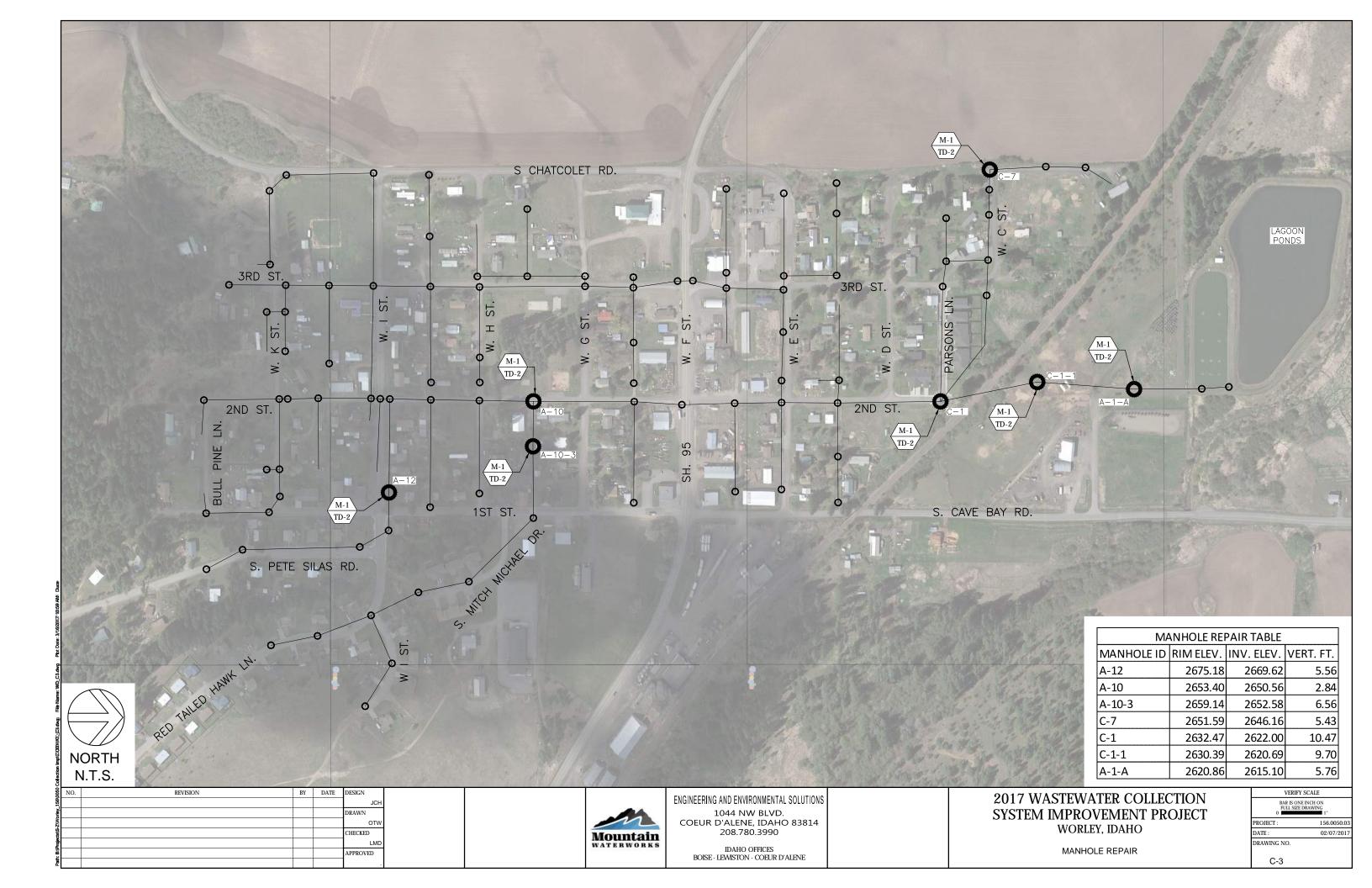
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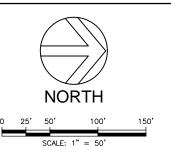
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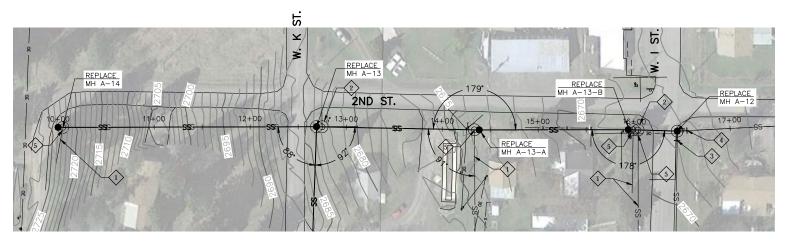
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PLAN AND PROFILE SHEET KEY MAP

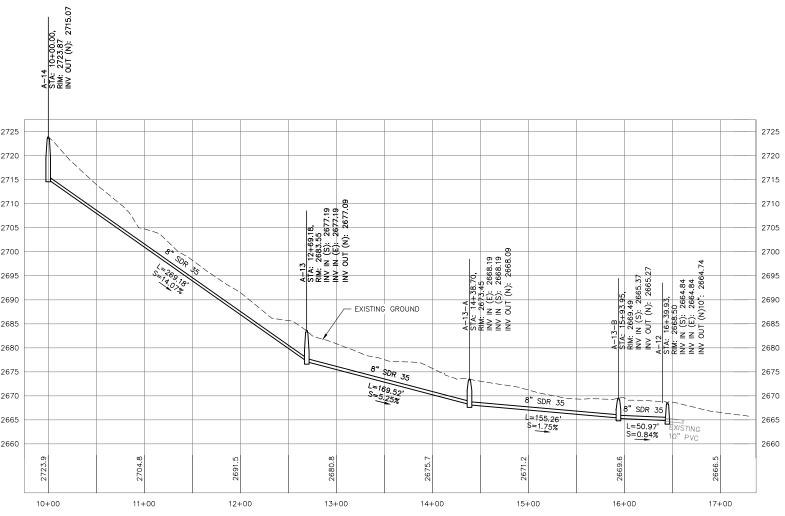
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PLAN A-14 TO A-12



PROFILE A-14 TO A-12

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GENERAL NOTES:

SHALL BE MADE.

KEY NOTES:

ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE

UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

2. EXISTING PIPE TO BE REPLACED IS 8" PVC

3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL. WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.

4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.

5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.

6. CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

RETAIN AND PROTECT EXISTING 4" SERVICE. REMOVE EXISTING MANHOLE AND LEGALLY DISPOSE OF OFFSITE.

CONNECT NEW MANHOLE PIPE STUB TO EXISTING 8" PVC PIPING USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.

CONNECT NEW MANHOLE PIPE STUB TO EXISTING 10" PVC PIPING USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.

S CONTRACTOR TO FINISH AND INSTALL PIPE AND FITTINGS TO CONNECT EXISTING 4" SERVICE LINE TO NEW PIPE.

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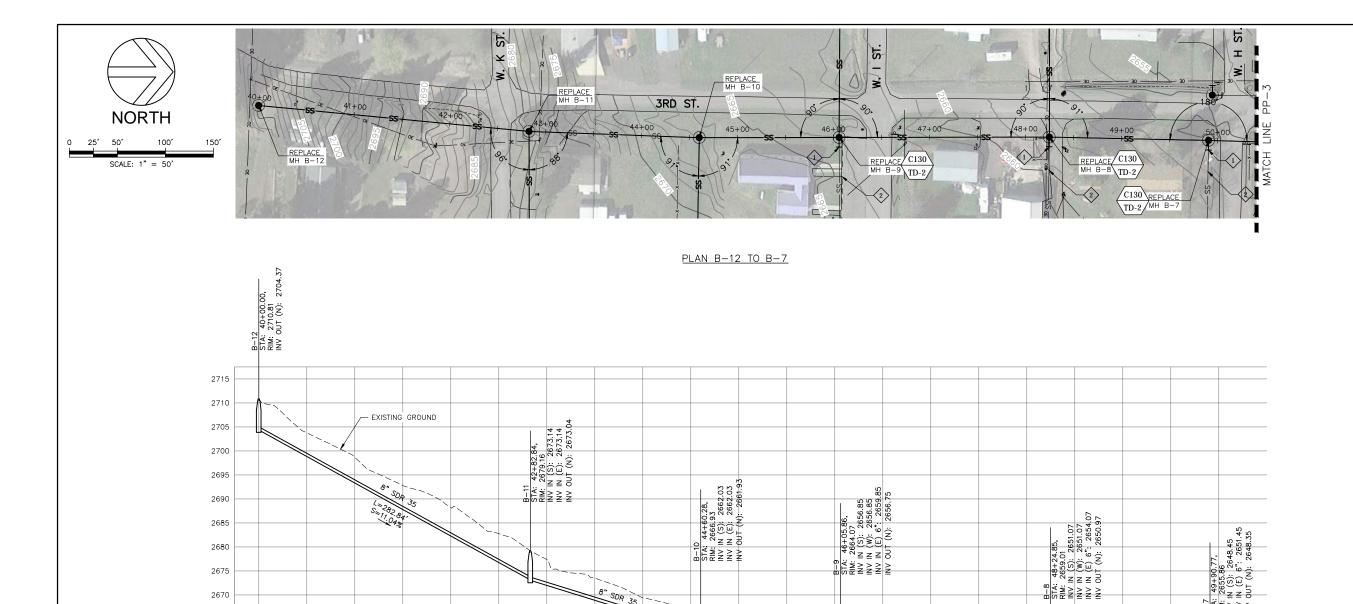
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PLAN AND PROFILE



GENERAL NOTES:

- ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE
- 2. EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL. WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE. SHALL BE MADE.
- 4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.
- 5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.
- 6. CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

KEY NOTES:

- CONTRACTOR TO FURNISH AND INSTALL 4 LF OF 6" PVC SDR-35 STUB OUT AND CONNECT TO EXISTING 6" PVC USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.
- 2 RETAIN AND PROTECT EXISTING 6" PVC.

PROFILE B-12 TO B-7

8" SDR

L=145.59 S=3.49%

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HORIZ. SCALE: 1" = 50' VER. SCALE: 1" = 10'

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8" SDR 35



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L=218.99' S=2.59%

8" SDR 35

L=165.92' S=1.52%

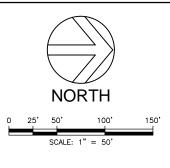
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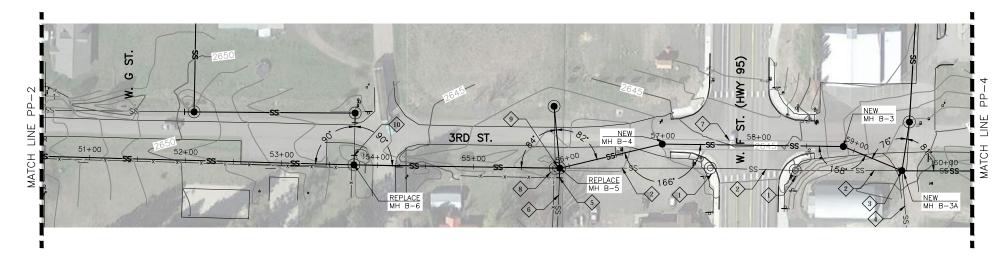
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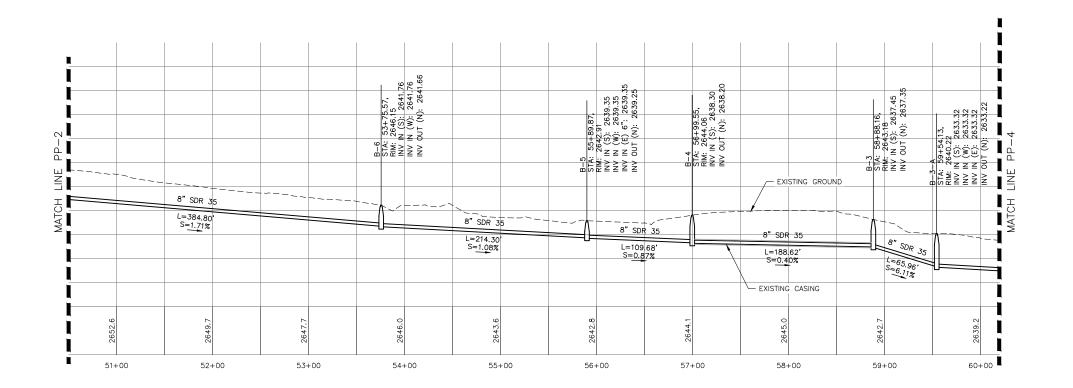
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PLAN B-6 TO B-2



PROFILE B-6 TO B-2

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SYSTEM IMPROVEMENT PROJECT

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GENERAL NOTES:

SHALL BE MADE.

KEY NOTES:

ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE

3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL. WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.

4. CONTRACTOR SHALL FIELD VERIFY ALL
DIMENSIONS AND ELEVATIONS BEFORE STARTING

WORK AND PRIOR TO ORDERING MATERIAL.

5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.

6. CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

CONTRACTOR TO SEAL PIPE INVERTS WITH LEAN CONCRETE OR NON-SHRINK GROUT AND COMPLETELY FILL MANHOLE WITH SAND. 2 ABANDON EXISTING PIPE IN PLACE. 3 CONTRACTOR TO FURNISH AND INSTALL PIPE AND FITTINGS TO CONNECT EXISTING 4" SERVICE LINE TO NEW PIPE. RETAIN AND PROTECT EXISTING 4" SERVICE

(\$) CONTRACTOR TO FURNISH AND INSTALL 4 LF OF 6" PVC SDR-35 STUB OUT AND CONNECT TO EXISTING 6" PVC USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.

EXISTING 18" SMOOTH INTERIOR WALL HDPE CASING PIPE. CONTRACTOR TO INSTALL CALPICO (OR EQUAL) ANNULAR SPACERS AND PIPE END SEALS IN ACCORDANCE WITH ISPWC SD-307. CONTRACTOR SHALL FIELD LOCATE EXISTING CASING ENDS AND VERIFY INVERT

8 REMOVE EXISTING MANHOLE AND LEGALLY

STANDARD SHALLOW MANHOLE PER ISPWC SD-505.

CONNECT NEW MANHOLE PIPE STUB TO EXISTING 8" PIPING USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.

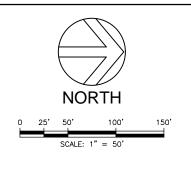
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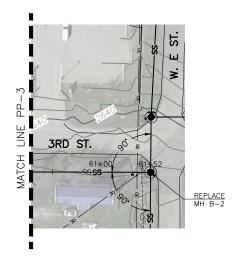
6 RETAIN AND PROTECT EXISTING 6" PVC.

ABANDON EXISTING MANHOLE IN PLACE.

2. EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

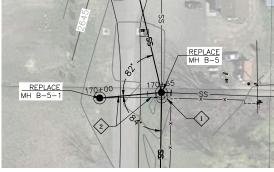
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PLAN B-3-A TO B-2





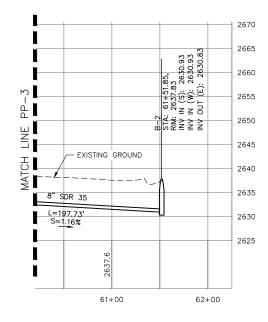
PLAN B-5-1 TO B-5

GENERAL NOTES:

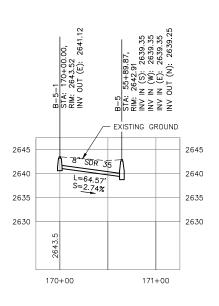
- ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE NOTED.
- EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.
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- 5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.
- 6. CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

KEY NOTES:

- DEMOLISH EXISTING MANHOLE AND LEGALLY DISPOSE OF OFFSITE.
- ABANDON EXISTING PIPE IN PLACE.



PROFILE B-3-A TO B-2



PROFILE B-5-1 TO B-5

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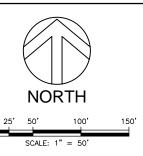
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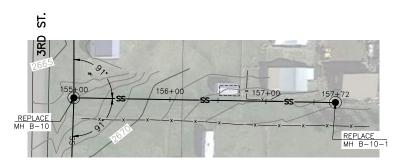
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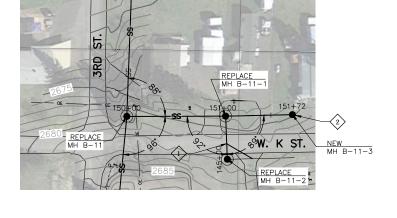
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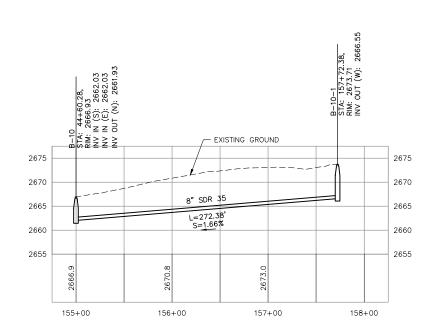




PLAN B-10 TO B-10-1



PLAN B-11 TO B-11-3 & B-11-2 TO B-11-1



PROFILE B-10 TO B-10-1



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2017 WASTEWATER COLLECTION SYSTEM IMPROVEMENT PROJECT WORLEY, IDAHO

PLAN AND PROFILE

PROFILE B-11-2 TO B-11-1

B-11-1 STA: 151 RIM: 267 INV IN (E INV IN (S

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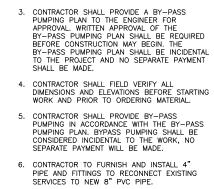
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PROJECT: 156.0050.0

DATE: 02/07/201

DRAWING NO.

PP-5

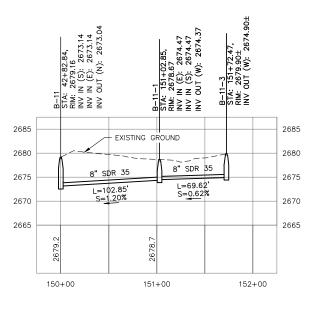


GENERAL NOTES:

 ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE

EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

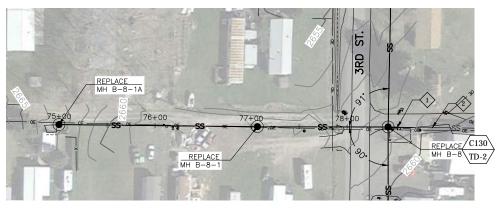
- CONTRACTOR TO FURNISH AND INSTALL 4"



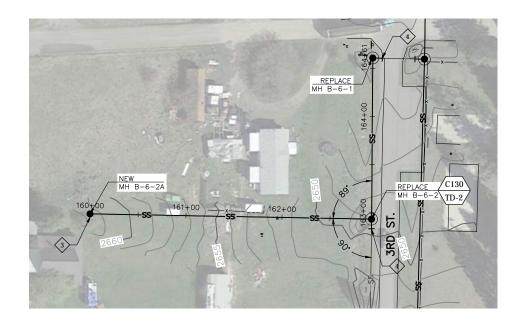
PROFILE B-11 TO B-11-3



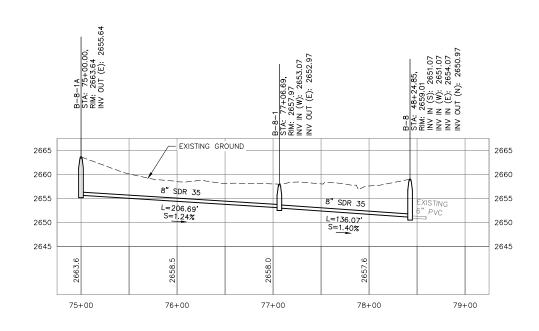




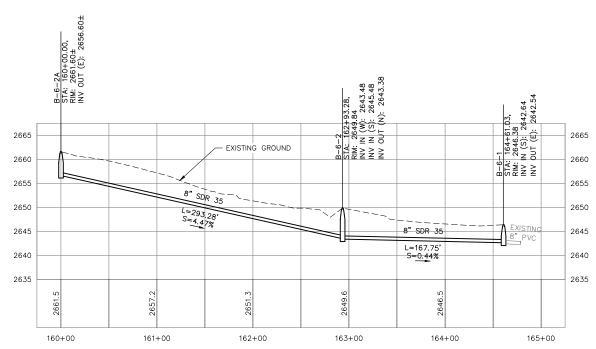
PLAN B-8-2 TO B-8



PLAN B-6-2A TO B-6-2



PROFILE B-8-2 TO B-8



PROFILE B-6-2A TO B-6-2

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ENGINEERING AND ENVIRONMENTAL SOLUTIONS

1044 NW BLVD.

COEUR D'ALENE, IDAHO 83814

208.780.3990

IDAHO OFFICES BOISE · LEWISTON · COEUR D'ALENE

2017 WASTEWATER COLLECTION SYSTEM IMPROVEMENT PROJECT WORLEY, IDAHO

PLAN AND PROFILE

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PROJECT :	156.0050.03
DATE:	02/07/2017
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PP-6	

1. ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE NOTED.

2. EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL. WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MEDETAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MEDETAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADETAL TO THE PROJECT AND NO SEPARATE PAYMENT

GENERAL NOTES:

SHALL BE MADE.

4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.

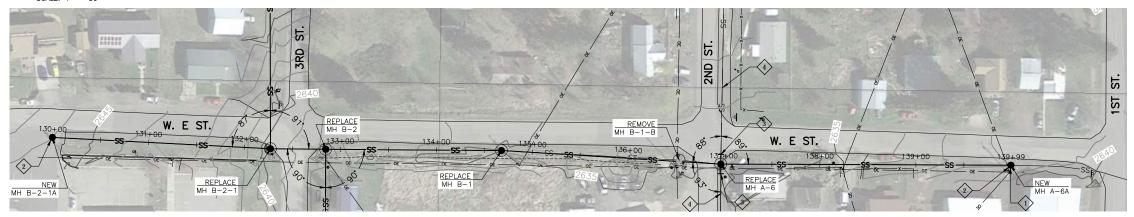
5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.

 CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

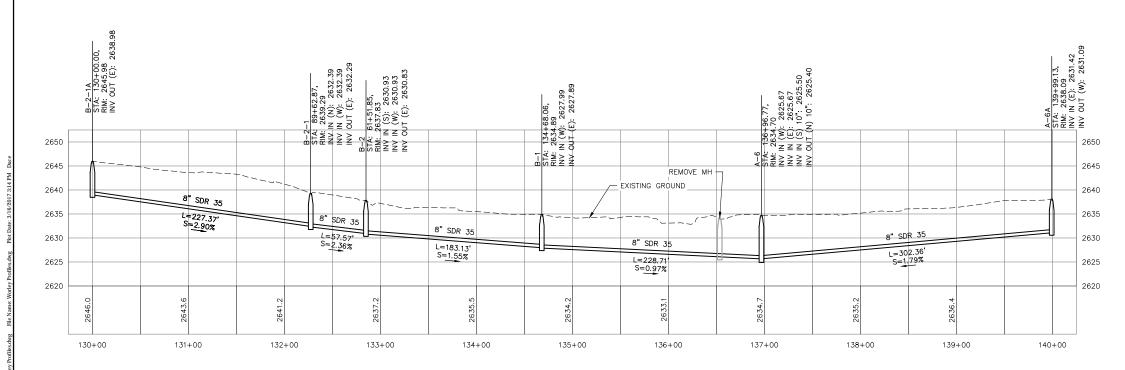
- CONTRACTOR TO FURNISH AND INSTALL 4 LF OF 6" PVC SDR-35 STUB OUT AND CONNECT TO EXISTING 6" PVC USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.
- 2 RETAIN AND PROTECT EXISTING 6" PVC.
- \$\frac{3}{\text{FIELD LOCATE END OF PIPE. RIM TO MATCH FXISTING GROUND FI FVATION.}}
- CONNECT NEW MANHOLE PIPE STUB TO EXISTING 8" PVC PIPING USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.







PLAN B-2-2 TO B-6A



PROFILE B-2-2 TO B-6A

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2. EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION. 3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.

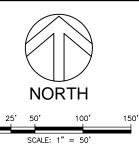
 ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE

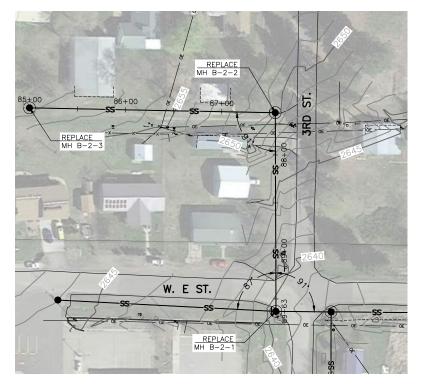
GENERAL NOTES:

- SHALL BE MADE.

 4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.
- 5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.
- CONTRACTOR TO FURNISH AND INSTALL 4"
 PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

- CONTRACTOR TO FURNISH AND INSTALL 4"
- \$\frac{2}{2}\$ FIELD LOCATE AND VERIFY RIM AND INVERT ELEVATIONS. RIM TO MATCH EXIST. GROUND ELEVATION.
- CONNECT NEW MANHOLE PIPE STUBS TO EXIST. 10" PIPING USING RIGID CONNECTIONS, ROMAC STYLE 501 OR EQUAL.
- RETAIN AND PROTECT EXIST. 10" PVC PIPE.

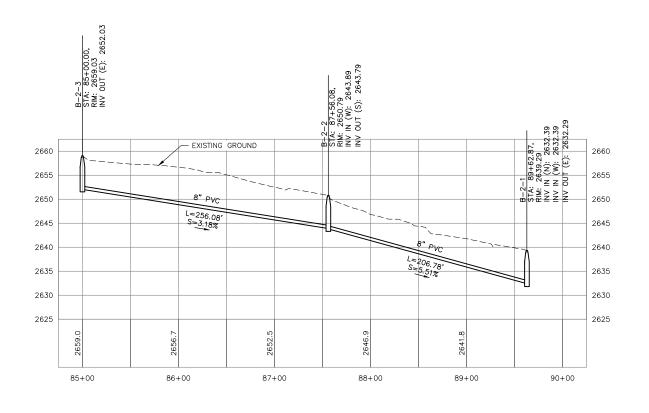


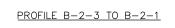


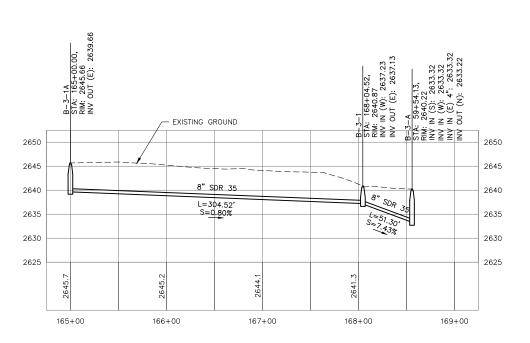
166+00 W. F ST. (SH 95)

PLAN B-3-1A TO B-NEW

PLAN B-2-3 TO B-2-1







PROFILE B-3-1A TO B-NEW

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PLAN AND PROFILE

VER	IFY SCALE
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GENERAL NOTES:

SHALL BE MADE.

KEY NOTES:

ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE

UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

2. EXISTING PIPE TO BE REPLACED IS 8" PVC

3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL. WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.

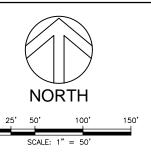
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.

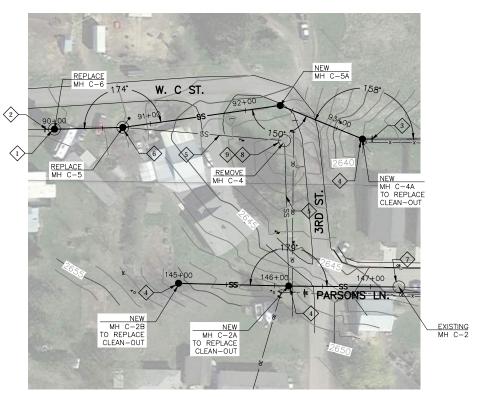
5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.

6. CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

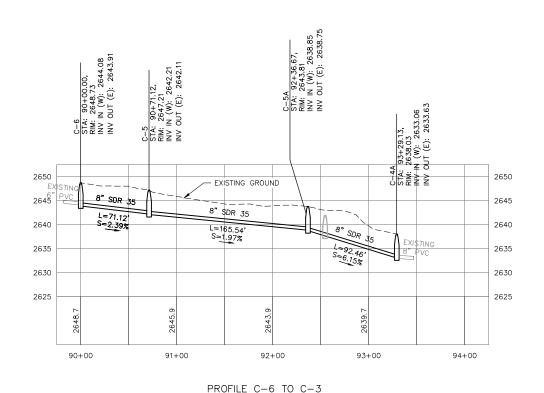
 $\begin{picture}(60,0)\put(0,0){\line(1,0){10}}\put(0,0){\line(1,0){10}$ STANDARD SHALLOW MANHOLE PER ISPWC SD-505.

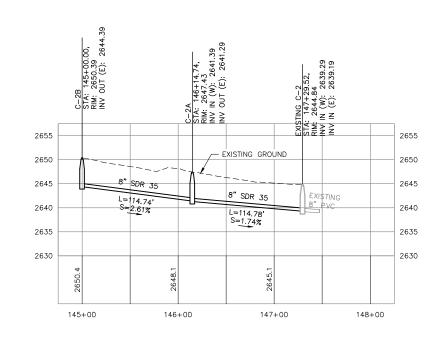
3 EXISTING PIPE TO BE ABANDONED IN PLACE.





PLAN C-6 TO C-3 & C-4B TO C-4





PROFILE C-4B TO C-4

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2017 WASTEWATER COLLECTION SYSTEM IMPROVEMENT PROJECT WORLEY, IDAHO

PLAN AND PROFILE

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NOTED.

2. EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

 ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE

3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.

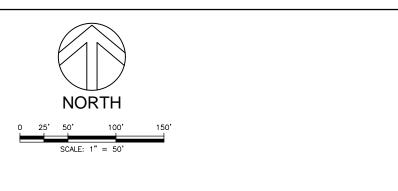
GENERAL NOTES:

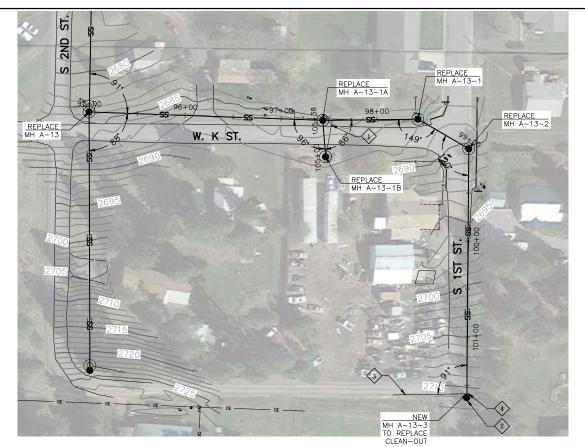
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.

5. CONTRACTOR SHALL PROVIDE BY—PASS
PUMPING IN ACCORDANCE WITH THE BY—PASS
PUMPING PLAN. BYPASS PUMPING SHALL BE
CONSIDERED INCIDENTAL TO THE WORK, NO
SEPARATE PAYMENT WILL BE MADE.

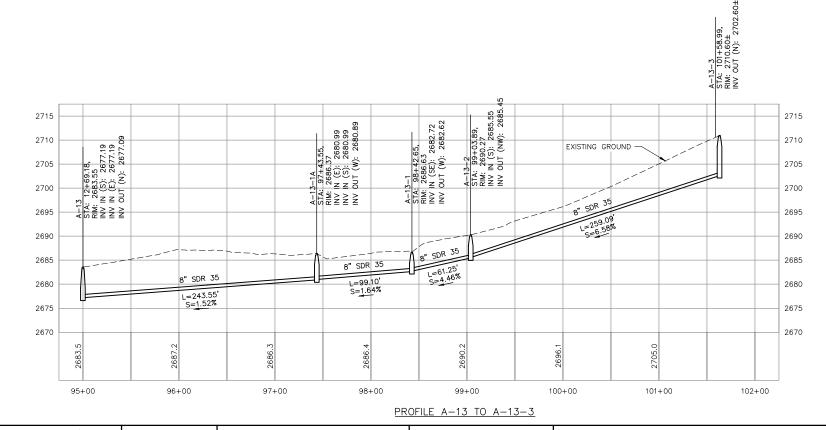
6. CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

- CONTRACTOR TO FURNISH AND INSTALL 4 LF OF 6" PVC SDR-35 STUB OUT AND CONNECT TO EXISTING 6" PVC USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.
- 2 RETAIN AND PROTECT EXISTING 6" PVC.
- CONNECT NEW MANHOLE PIPE STUB TO EXISTING B" PIPING USING RIGID CONNECTIONS, ROMAC STYLE 501 OR EQUAL. CONTRACTOR TO VERIPY EXISTING PIPE SIZE TO THE EAST OF NEW MANHOLE C-4A.
- FIELD LOCATE EXISTING CLEAN—OUT AND VERIFY INVERT ELEVATION. NEW MANHOLE RIM TO MATCH GROUND ELEVATION.
- 5 EXISTING PIPE TO BE ABANDONED IN PLACE.
- 6 CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RE-CONNECT EXISTING SERVICE LINE TO NEW MANHOLE.
- CORE DRILL EXISTING MANHOLE AND CONNECT WITH A KOR-N-SEAL BOOT PER MANUFACTURER'S RECOMMENDATIONS.
- REMOVE EXISTING MANHOLE AND LEGALLY DISPOSE OF OFFSITE.
- ONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RE-CONNECT EXISTING SERVICE LINE TO NEW SEWER MAIN.





PLAN A-13 TO A-13-3 & A-13-1B TO A-13-1A



13–1A v: 97+43.55, : 2686.37 IN (E): 2680.9 IN (S): 2680.9 OUT (W): 268 - EXISTING GROUND 2690 2690 2685 2685 SDR . 2680 S=1.00% 2675 105+00 106+00 HORIZ. SCALE: 1" = 50' VER. SCALE: 1" = 10'

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(VERIFY PER SHEET SIZE)

DATE

PROFILE A-13-1B TO A-13-1A

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PLAN AND PROFILE

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GENERAL NOTES:

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KEY NOTES:

ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE

2. EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL. WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE

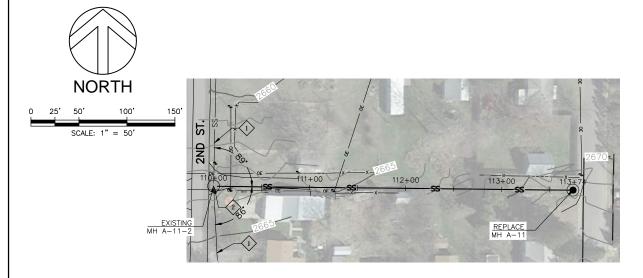
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.

5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.

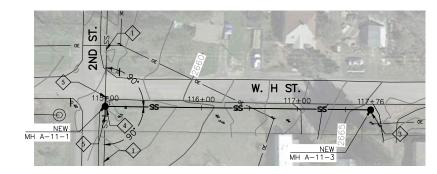
6. CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

EXISTING PIPE TO BE ABANDONED IN PLACE. $\stackrel{\textstyle <}{\bigcirc}$ field locate end of Pipe. New Manhole RIM to Match existing ground elevation. RETAIN AND PROTECT EXISTING 4" PVC SERVICE LINE.

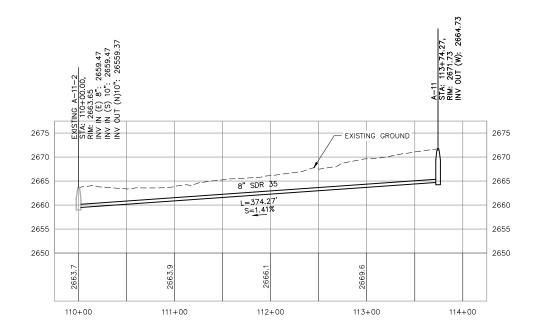
CONTRACTOR TO FURNISH AND INSTALL PIPE AND FITTINGS TO CONNECT EXISTING 4" SERVICE LINE TO NEW PIPE



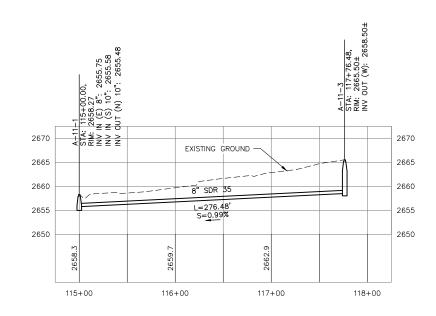
PLAN A-11-2 TO A-11-2A



PLAN A-11 TO A-11A



PROFILE A-11-2 TO A-11-2A



PROFILE A-11 TO A-11A

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2017 WASTEWATER COLLECTION SYSTEM IMPROVEMENT PROJECT WORLEY, IDAHO

PLAN AND PROFILE

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3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL. WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.

4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.

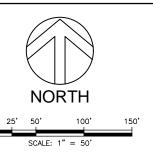
 ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE

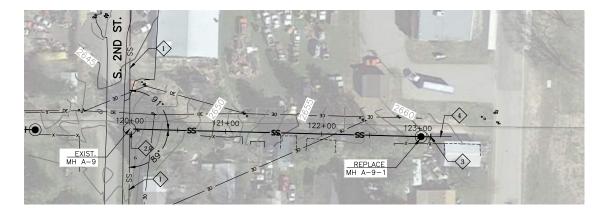
EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

GENERAL NOTES:

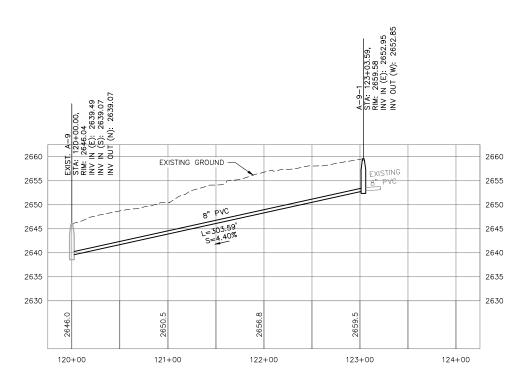
- 5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.
- 6. CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

- 1> RETAIN AND PROTECT EXISTING 10" PVC.
- CONTRACTOR TO FURNISH AND INSTALL 4 LF OF 6" PVC SDR-35 STUB OUT AND CONNECT TO EXISTING 6" PVC USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.
- FIELD LOCATE END OF LINE. NEW MANHOLE RIM TO MATCH GROUND ELEVATION.
- STANDARD SHALLOW MANHOLE PER ISPWC SD-505.
- 5 CONNECT NEW MANHOLE PIPE STUBS TO EXIST. 10" PIPING USING RIGID CONNECTIONS, ROMAC STYLE 501 OR EQUAL.





PLAN A-9 TO A-9-1



PROFILE A-9 TO A-9-1

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2017 WASTEWATER COLLECTION SYSTEM IMPROVEMENT PROJECT WORLEY, IDAHO

PLAN AND PROFILE

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PROJECT :	156.0050.03			
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GENERAL NOTES:

SHALL BE MADE.

KEY NOTES:

ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE

2. EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE!

4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.

5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.

CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

RETAIN AND PROTECT EXISTING 10" PVC.

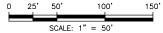
RETAIN AND PROTECT EXISTING MANHOLE. CUT EXISTING 8" PVC PIPE TWO FEET FROM MANHOLE AND CONNECT TO NEW PIPE USING RIGHD CONNECTION, ROMAC STYLE 501 OR

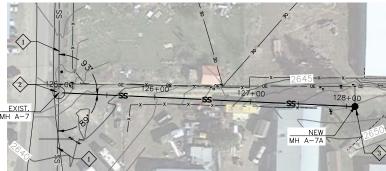
CONNECT NEW MANHOLE PIPE STUB TO EXISTING 8" PIPING USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.

4 RETAIN AND PROTECT EXISTING 8" PVC.

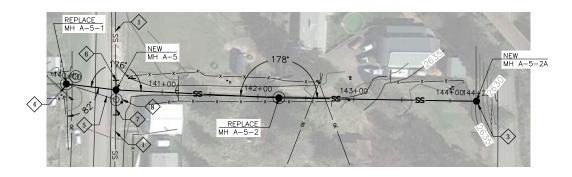
IDAHO OFFICES



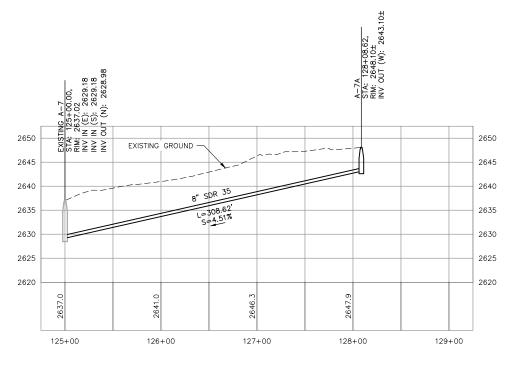




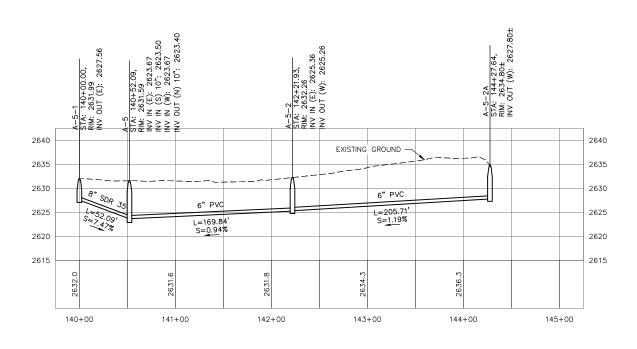
PLAN A-7 TO A-7A



PLAN A-5 TO A-5-2A



PROFILE A-7 TO A-7A



PROFILE A-5 TO A-5-2A

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FOR REVIEW ONLY
CONSTRUCTION



ENGINEERING AND ENVIRONMENTAL SOLUTIONS

1044 NW BLVD.

COEUR D'ALENE, IDAHO 83814

208.780.3990

IDAHO OFFICES BOISE · LEWISTON · COEUR D'ALENE

2017 WASTEWATER COLLECTION SYSTEM IMPROVEMENT PROJECT WORLEY, IDAHO

PLAN AND PROFILE

VERIFY SCALE					
BAR IS ONE INCH ON FULL SIZE DRAWING 0					
PROJECT :	156.0050.03				
DATE :	02/07/2017				
DRAWING NO.					
PP-13					

3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL. WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.

4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.

 ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE

EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.

 CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

KEY NOTES:

GENERAL NOTES:

RETAIN AND PROTECT EXISTING 10" PVC.

CORE DRILL EXISTING MANHOLE AND CONNECT WITH A KOR-N-SEAL BOOT PER MANUFACTURER'S RECOMMENDATION.

CONTRACTOR TO FURNISH AND INSTALL PIPE AND FITTINGS TO CONNECT EXISTING 4" SERVICE LINE TO NEW PIPE.

5 EXISTING PIPE TO BE ABANDONED IN PLACE.

6 CONNECT NEW MANHOLE PIPE STUBS TO EXIST. 10" PIPING USING RIGID CONNECTIONS, ROMAC STYLE 501 OR EQUAL.

STUB 10" PVC SDR-35 PIPE FROM NEW MANHOLE PAST EXISTING MANHOLE BEING REMOVED AND CONNECT TO EXISTING 10" PIPING USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.

REMOVE EXISTING MANHOLE AND LEGALLY DISPOSE OF OFFSITE.



HORIZ. SCALE: 1" = 50' VER. SCALE: 1" = 10'

(VERIFY PER SHEET SIZE)

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PLAN B-9-4 TO B-9

REPLACE MH B-9-4

GENERAL NOTES:

SHALL BE MADE.

ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE

2. EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.

3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL. WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.

4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.

5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.

6. CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

VERIFY SCALE

02/07/2017

PROJECT :

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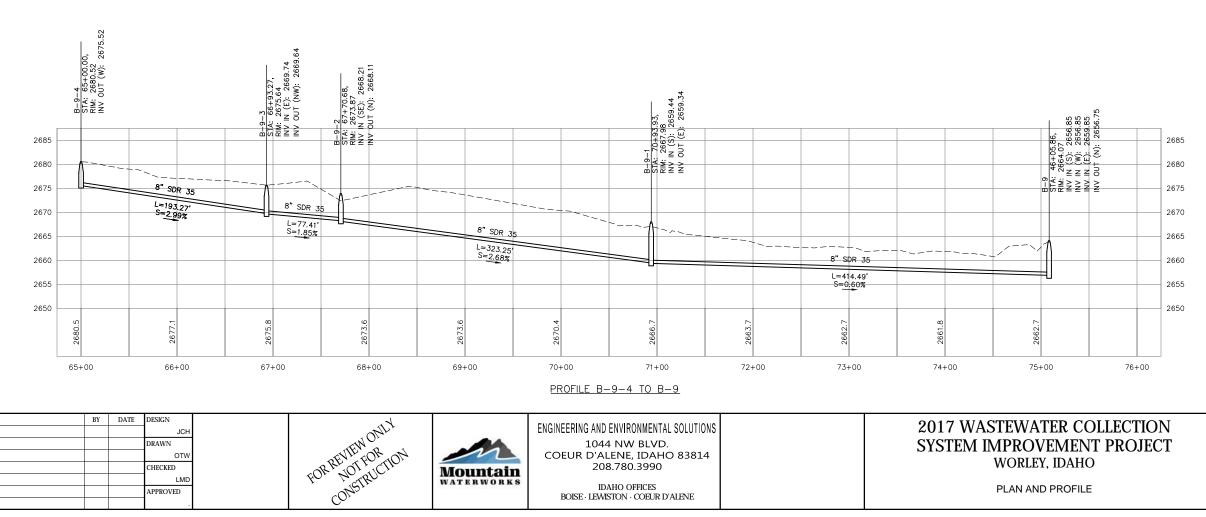
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DATE:

SYSTEM IMPROVEMENT PROJECT

WORLEY, IDAHO

PLAN AND PROFILE



1044 NW BLVD.

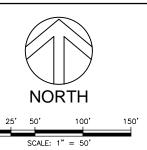
COEUR D'ALENE, IDAHO 83814

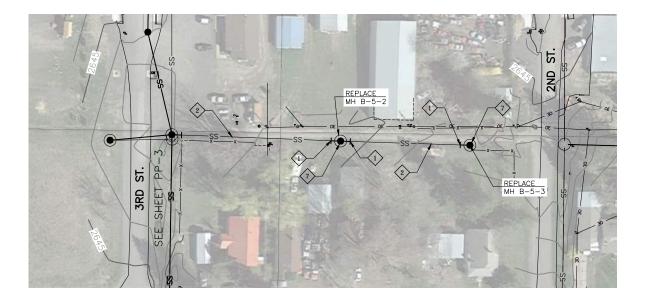
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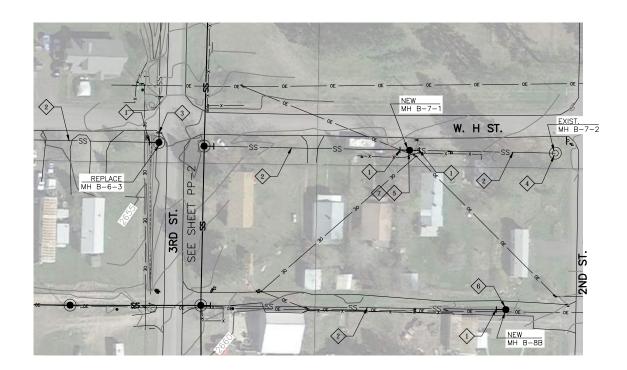
IDAHO OFFICES

 $BOISE \cdot LEWISTON \cdot COEUR \ D'ALENE$

Mountain







HORIZ. SCALE: 1" = 50' VER. SCALE: 1" = 10' (VERIFY PER SHEET SIZE)

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ENGINEERING AND ENVIRONMENTAL SOLUTIONS

1044 NW BLVD.

COEUR D'ALENE, IDAHO 83814

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IDAHO OFFICES BOISE · LEWISTON · COEUR D'ALENE

2017 WASTEWATER COLLECTION SYSTEM IMPROVEMENT PROJECT WORLEY, IDAHO

ADDITIONAL MANHOLE CONSTRUCTION

VERIFY SCALE			
BAR IS ONE INCH ON FULL SIZE DRAWING 0			
PROJECT :	156.0050.03		
DATE:	02/07/2017		
DRAWING NO.			
PP-15			

GENERAL NOTES:

- ALL MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD MANHOLE DETAIL C500 ON SHEET TD-2 UNLESS OTHERWISE NOTED.
- EXISTING PIPE TO BE REPLACED IS 8" PVC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR SHALL PROVIDE A BY—PASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL. WRITTEN APPROVAL OF THE BY—PASS PUMPING PLAN SHALL BE REQUIRED BEFORE CONSTRUCTION MAY BEGIN. THE BY—PASS PUMPING PLAN SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
- 4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK AND PRIOR TO ORDERING MATERIAL.
- 5. CONTRACTOR SHALL PROVIDE BY—PASS PUMPING IN ACCORDANCE WITH THE BY—PASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE WORK, NO SEPARATE PAYMENT WILL BE MADE.
- 6. CONTRACTOR TO FURNISH AND INSTALL 4" PIPE AND FITTINGS TO RECONNECT EXISTING SERVICES TO NEW 8" PVC PIPE.

KEY NOTES:

- CONTRACTOR TO FURNISH AND INSTALL 4 LF OF 6" PVC SDR-35 STUB OUT AND CONNECT TO EXISTING 6" PVC USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.
- 2 RETAIN AND PROTECT EXISTING 6" PVC.
- CONNECT NEW MANHOLE PIPE STUB TO EXISTING 8" PVC PIPING USING RIGID CONNECTION, ROMAC STYLE 501 OR EQUAL.
- 4 RETAIN AND PROTECT EXISTING MANHOLE.
- 5 FIELD LOCATED AND VERIFY INVERT ELEVATION. NEW MANHOLE RIM TO MATCH EXISTING GROUND ELEVATION.
- (6) FIELD LOCATE END OF LINE AND VERIFY INVERT ELEVATION. NEW MANHOLE RIM TO MATCH GROUND ELEVATION.

MANHOLE REPLACEMENT TABLE

INV. IN

2641.63

2649.27

2653.50

N/A

INV. OUT

2641.53

2643.92

2649.17

2653.40

RIM EL.

2645.00

2647.05

2655.40

2656.50

MANHOLE ID

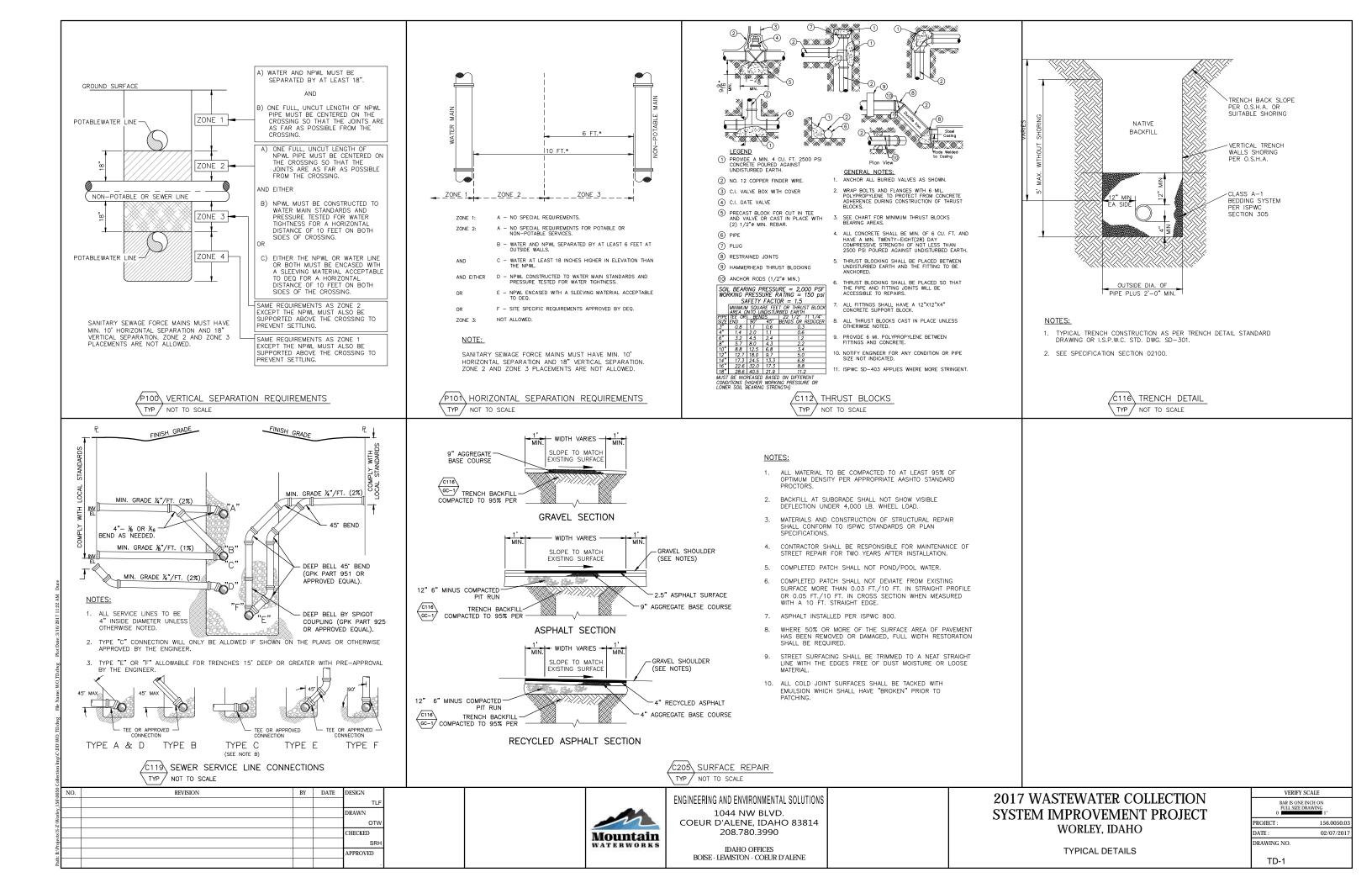
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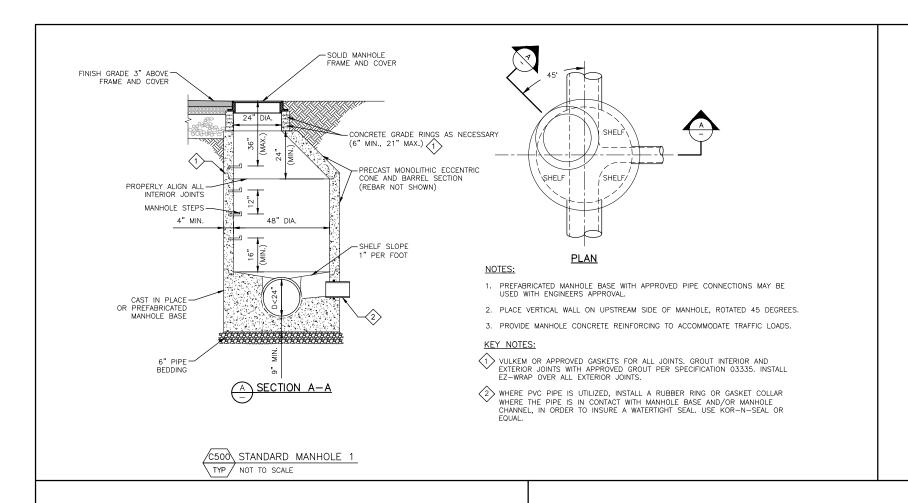
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B-7-1

*SEE GENERAL NOTE 4

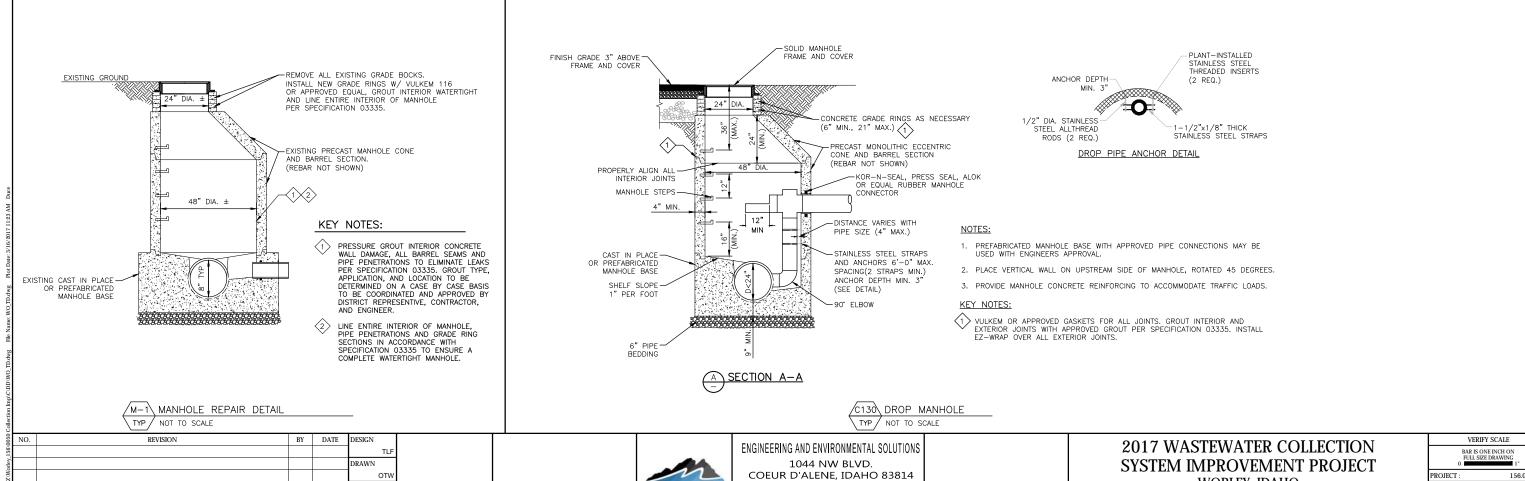
STANDARD SHALLOW MANHOLE PER ISPWC SD-505.





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APPROVED



Mountain

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WORLEY, IDAHO

TYPICAL DETAILS

DATE:

DRAWING NO.

TD-2

02/07/20

Attachment C Environmental Information and Documentation

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

Page 1 of 11

Tribe: Coeur d'Alene Tribe	Reservation: City of Worley
Project, Program, Grant Description & Location:	09-K98: Comprehensive Assessment of the Worley Wastewater System. Option #1: Open cut with Replacing manholes with Precast Manholes. Worley, Idaho

<u>Action</u> includes purchasing, construction, alteration, renovation, or leasing activities, new and continuing activities, including projects and programs entirely or partly financed, assisted, conducted, regulated, or approved by the Indian Health Service.

Note: A "Yes" or "No" response is required for every question. Answer each item completely with adequate supporting information to justify your response.

Depending upon the context and intensity, any consideration listed below can result in an Environmental Assessment.

Consideration	Will the proposed action/activity affect the Consideration? Provide supporting information for your responses and explain any mitigations to be implemented.
1. Will the proposed action result in a known violation or continuance of a violation of applicable (Federal, Tribal, State or local) laws or requirements for protection of environment or public health and safety?	<u>No</u> – PERSONAL CONTACT: Scott Fields, Water Quality Specialist, Public Works Department , Coeur d'Alene Tribe, (208) 686-0252, 10 March 2011. Per conversation, the construction of sewer mains and manholes will not violate any known laws or present a public health threat to the community. A request to follow the guidelines of the EPA Storm Water Protection Plan and construction during the dry weather was made.
	PERSONAL CONTACT: Brenda Morris, Water/Wastewater Operator, City of Worley, (208)-686-1258, 8 March 2011. The proposed action will not result in a conflict with existing land use plans.
2. Will the proposed action result in a conflict with existing or proposed Federal, Tribal, state, and local land use plans?	<u>No</u> – PERSONAL CONTACT: Jim Kackman, Public Works Director, Planning Department, Coeur d'Alene Tribe, (208) 686-2066, March. The proposed action will not result in a conflict with existing land use plans.
	PERSONAL CONTACT: Brenda Morris, Water/Wastewater Operator, City of Worley, (208)-686-1258, 8 March 2011 – see attached letter. The proposed action will not result in a conflict with existing land use plans.
3. Is there a controversy with respect to environmental effects of the proposed action based on reasonable and substantial issues?	No – PERSONAL CONTACT: Scott Fields, Water Quality Specialist, Public Works Department, Coeur d'Alene Tribe, (208) 686-0252, 10 March 2011. A request to follow the guidelines of the EPA Storm Water Protection Plan and construction during the dry weather was made.

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

Worley, Idaho

Page 2 of 11

Tribe: Coeur d'Alene Tribe

Reservation: City of Worley

Project, Program, Grant Description & Comprehensive Assessment of the Worley Wastewater System.

& Location: Option #1: Open cut with Replacing manholes with Precast Manholes.

2	Will the proposed action/activity affect the Consideration?
Consideration	Provide supporting information for your responses and explain any mitigations to be implemented.
4. Is the proposed action significantly greater in scope than normal for the area or does it have significant unusual characteristics?	<u>No</u> – PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Scope of the Open Cut method is to remove and replace deficient pipes investigated (Pg. 11, Paragraph 5.1). Scope of the Precast Manhole Replacement is to remove and replace deficient manholes investigated (Pg. 14, Paragraph 6.1).
5. Does the proposed action establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects?	<u>No</u> – PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. The proposed action is to replace and remove existing sewer pipe. The proposed action will not establish future action that will have potentially significant environmental effects.
6. Does the proposed action have significant adverse direct or indirect effects on park land, other public lands, or areas of recognized scenic or recreational value? (For example, consider how your activity will affect the view?)	<u>No</u> – PERSONAL CONTACT: Jim Kackman, Public Works Director, Planning Department, Coeur d'Alene Tribe, (208) 686-2066, 5 March 2009. Per conversation, this proposal does not have a significant adverse direct or indirect effect on park land, other public lands, or areas of recognized scenic or recreational value.
	PERSONAL CONTACT: Brenda Morris, Water/Wastewater Operator, City of Worley, (208)-686-1258, 8 March 2011. The proposed action will not result in a conflict with existing land use plans
7. Does the proposed action include construction of a new municipal solid waste landfill at a new solid waste disposal site?	<u>No</u> –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. No solid wastewater disposal site is considered.
8. Will the proposed action create a need for additional capacity at solid waste disposal facilities?	<u>No</u> –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. No solid wastewater disposal site is considered.

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

Page 3 of 11

Tribe: Coeur d'Alene Tribe Reservation: City of Worley

Project, Program, Grant Description & Location:

09-K98: Comprehensive Assessment of the Worley Wastewater System.

Option #1: Open cut with Replacing manholes with Precast Manholes.

Worley, Idaho

Consideration	Will the proposed action/activity affect the Consideration? Provide supporting information for your responses and explain any mitigations to be implemented.
9. Does the proposed action include construction of a new wastewater treatment facility that will discharge treated sewage effluent to the waters of the U.S.?	No –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. A construction of a wastewater treatment facility is not considered.
10. Will the proposed action create a need for additional capacity at wastewater treatment facilities?	No –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remediate a large amount of I&I into the wastewater treatment facility. The proposed action will not create a need for additional capacity. No new wastewater connections are proposed.
11. Will the proposed action create a need for additional capacity in the drinking water supply?	No PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. No solid wastewater disposal site is considered. Drinking water supply will not be affected.
12. Are there other considerations about the proposed action that could adversely affect the environment and/or public health and safety?	No –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. No adverse affect to the environment and/or public safety is anticipated with the proposed action.
13. Will the proposed action create a need for additional capacity in health care facilities and for health care services?	No additional sewer connections are considered. Health care facilities will not be affected.
14. Will the proposed action create a need for additional energy supply or generation?	No –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. No additional lift stations or power facilities are considered in the proposed action.

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

Worley, Idaho

Page 4 of 11

	Tribe: C	Coeur d'Alene Tribe	Reservation: City of Worley
Project, Program, Grant Description	ram, Grant Description	09-K98: Comprehensive Assessment of the Worley Wastewater System.	
	& Location:		Option #1: Open cut with Replacing manholes with Precast Manholes.

Consideration	Will the proposed action/activity affect the Consideration? Provide supporting information for your responses and explain any mitigations to be implemented.
15. Will the proposed action create a need for additional capacity in educational facilities?	<u>No</u> –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. No additional connections are proposed.
16. Will the proposed action create a need for additional capacity in transportation systems?	<u>No</u> –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. The proposed action will not influence the need for additional capacity in transportation facilities.
17. <u>Historic Preservation:</u> a. Does the proposed action involve the purchase, construction, alteration, renovation, or lease of real property or portion of real property that is more that 50 years old?	No – PERSONAL CONTACT: Jim Kackman, Public Works Director, Planning Department, Coeur d'Alene Tribe, (208) 686-2066, 5 March 2009. The proposed action does not involve the purchase, construction, alteration, renovation, or lease of real property or portion of real property that is more than 50 years old.
	PERSONAL CONTACT: Brenda Morris, Water/Wastewater Operator, City of Worley, (208)-686-1258, 8 March 2011. The proposed action will not affect property that is 50 years old.
b. Will the proposed action adversely affect properties listed, or eligible for listing, on the National Register of Historic Places? [Buildings, archaeological sites, National Historic Landmarks; objects of significance to a Tribe including graves, funerary objects, and traditional	<u>No</u> – PERSONAL CONTACT: Jill Maria Wagner, Ph.D, Tribal Historic Preservation Officer, (208) 686-1572, 09 March 2009. There is no foreseeable impact to cultural resources in the described actions of the project summary.
cultural properties. For assistance, consult with the State Historic Preservation Officer (SHPO) or the Tribal Historic Preservation Officer (THPO)])	PERSONAL CONTACT: Brenda Morris, Water/Wastewater Operator, City of Worley, (208)-686-1258, 8 March 2011. The proposed action will not affect property that is 50 years old.

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

Page 5 of 11

Tribe: Coeur d'A	lene Tribe	Reservation: City of Worley
Project, Program, Gran & Location:	nt Description	09-K98: Comprehensive Assessment of the Worley Wastewater System. Option #1: Open cut with Replacing manholes with Precast Manholes. Worley, Idaho

Consideration	Will the proposed action/activity affect the Consideration? Provide supporting information for your responses and explain any mitigations to be implemented.
18. Endangered Species Act: Is the proposed action likely to adversely affect a plant or animal species listed on the Federal or applicable state list of endangered or threatened species or a specific critical habitat of an endangered or threatened species? (Consult with Fish & Wildlife Service or NOAA Fisheries Service. Discovering an endangered or threatened species in the project area will stop the project, and the Endangered Species Act has significant fines and penalties for violations.)	<u>No</u> – PERSONAL CONTACT: Alfred Nomee, Director, Natural Resources Department, Coeur d'Alene Tribe, (208) 686-1009. Per conversation 10 March 2011, the proposed action is not likely to adversely affect endangered or threatened species.
19. Will the proposed action require major sedimentation and erosion control measures? (Consider earth disturbing activities including construction or expansion of a parking lot.)	<u>No</u> – PERSONAL CONTACT: Jim Kackman, Public Works Director, Planning Department, Coeur d'Alene Tribe, (208) 686-2066, 5 March 2011. The proposed action will not require major sedimentation or erosion control measures.
20. Will the proposed action violate a storm water permit or a wastewater discharge permit either for construction or on-going operations? (Earth disturbing activities may require a Notice of Intent (NOI) to be covered under a storm water general permit or individual permit from the EPA or other agency and a storm water control plan, including some parking lot construction activities. A discharge of wastewater to the environment may require a permit from Tribal, local or state authorities, or EPA.)	No – PERSONAL CONTACT: Brenda Morris, Utility Operator, City of Worley, (208) 686-1258, 11 March 2011. The proposed action does not violate the current NPDES wastewater discharge permit during construction or on-going operations.

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

Page 6 of 11

Tribe:	Coeur d'Alene Tribe	Reservation: City of Worley
Project, Program, Grant Description & Location:		09-K98: Comprehensive Assessment of the Worley Wastewater System. Option #1: Open cut with Replacing manholes with Precast Manholes.
		Worley, Idaho

Consideration	Will the proposed action/activity affect the Consideration? Provide supporting information for your responses and explain any mitigations to be implemented.
21. <u>Safe Drinking Water Act</u> : Will the proposed action impact an EPA designated sole source aquifer? (Designation of sole source aquifer puts restrictions and conditions on Federal expenditures, projects, and grants.)	No – PRINTED MATERIAL: Designated Sole Source Aquifers in EPA Region X, per the EPA website: http://yosemite.epa.gov/r10/water.nsf/b1edf256c3d7d444882567e600623096/2dc5250adfb99ef6882 5753000005d83/\$FILE/SoleSource2008Spokane1 o.pdf See attachments printed from the website 10 March 2009. The project planning area is not located within a sole source aquifer.
22. Wetlands and Water Resources (lakes, rivers, ponds, streams, etc.): Will the proposed action violate a Section 404 (Clean Water Act) permit for actions in a wetland and/or Section 10 (Rivers and Harbors Act) permit for actions in a stream or river? (Activities in or near a wetland or river may require a permit from the U.S. Army Corps of Engineers or U.S. Coast Guard. Includes: construction in or near any wet or dry waterway, stream crossings, intake structures, outfalls, etc.)	<u>No</u> – PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. The proposed action will not violate Section 404 (Clean Water Act) permit, and no actions will take place near a river or stream.
23. Floodplains: a. Is the proposed action located in either a 100-year or, for critical actions, a 500-year floodplain? (If Flood Insurance Rate Maps do not exist for the project site, a floodplain survey or consultation may be required. Also may need to consider if the facility will require flood insurance).	No – PRINTED MATERIALS: FEMA ISSUED FLOOD INSURANCE RATE MAP (FIRM) 05/03/2010, Proposed action is located outside of 100 year or 500 year floodplain.
b. Will the proposed action adversely impact flood flows in a floodplain or support development in a floodplain?	<u>No</u> – PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. The proposed action will not violate Section 404 (Clean Water Act) permit, and no actions will take place near a river or stream

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

Page 7 of 11

Tribe:	Coeur d'Alene Tribe	Reservation: City of Worley	
Project, Program, Grant Description & Location:		09-K98: Comprehensive Assessment of the Worley Wastewater System. Option #1: Open cut with Replacing manholes with Precast Manholes.	
		Worley, Idaho	

Consideration	Will the proposed action/activity affect the Consideration? Provide supporting information for your responses and explain any mitigations to be implemented.
24.Existing site: Would the proposed action, involving the purchase, construction or lease of new facilities (including portable facilities and trailers), substantially increase the capacity of an existing health care facility?	<u>No</u> –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. No additional faculties are proposed.
25. New site: Does the proposed action involve purchase, construction, or lease of new facilities (including portable facilities and trailers) where such action is for buildings equal to or more than 12,000 square feet (1080 square meters) of useable space when more than 5 acres (2 hectares) of surface land area are involved at a new site ?	No PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. No additional facilities are proposed.
26. New site: Does the proposed action involve purchase, construction, or lease of health care facilities (other than buildings) for projects equal to or more than 5 acres (2 hectares) of surface land area at a new site ?	No PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. No additional health care facilities are proposed.
27. Does the proposed action involve the sale or transfer of real property, on which any hazardous substance was stored for one year or more, known to have been released, or disposed of? (Provide relevant documentation for any hazardous substance releases. See 40 CFR 373.2(b), 302.4, and 261.30 for reportable quantities.)	No –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. The proposed action does not involve the sale or transfer of real property on which any hazardous substances are stored for one year or more.

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

Page 8 of 11

Tribe: Coeur d'Alene Tribe Reservation: City of Worley

Project, Program, Grant Description & Location:

09-K98: Comprehensive Assessment of the Worley Wastewater System.

Option #1: Open cut with Replacing manholes with Precast Manholes.

Worley, Idaho

Consideration 28. Does the proposed action involve the sale or transfer of real	Will the proposed action/activity affect the Consideration? Provide supporting information for your responses and explain any mitigations to be implemented. No –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater	
property, on which underground or above ground storage tanks are located?	System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main. The sale or transfer of real property on which underground or above ground storage tanks is not proposed.	
29. Will the proposed action violate Tribal, local, state, or Federal law on the use and storage of hazardous substances or the transportation, storage, and disposal of hazardous wastes or medical wastes? (Activities that may generate reportable quantities include air conditioning repair and service, pesticide application, motor pools, automobile repair, welding, landscaping, agricultural activities, print shops, hospitals, clinics, medical centers, etc. Repair, renovation, or demolition activities can generate waste that has asbestos-containing materials, asbestos, lead-based paint, PCBs, CFCs, etc.)	No – PERSONAL CONTACT: Jim Kackman, Public Works Director, Planning Division, Coeur d'Alene Tribe, (208) 686-2066, 5 March 2009. The proposed action will not violate any Tribal or Federal laws. PERSONAL CONTACT: Bill Burke, Wastewater Technician, Idaho Rural Water Association, (208) 343-7001	
30. Will the proposed action adversely affect community air pollution for a long period of time? (Consider if your activity must conform to an applicable air quality implementation plan.)	<u>No</u> –PRINTED MATERIAL: 09-K98 Comprehensive Assessment of the Worley Wastewater System for the Coeur d'Alene Tribe. Proposed action is to remove and replace existing sewer main.	

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

Page 9 of 11

Tribe: Coeur d'Alene Tribe

Reservation: City of Worley

O9-K98: Comprehensive Assessment of the Worley Wastewater System.

& Location: Option #1: Open cut with Replacing manholes with Precast Manholes.

Worley, Idaho

Consideration	Will the proposed action/activity affect the Consideration? Provide supporting information for your responses and explain any mitigations to be implemented.
31. If the proposed action is implemented, will it have a disproportionately high and adverse human health or environmental impact on the Tribe, low-income populations, or minority populations?	<u>No</u> – PERSONAL CONTACT: Jim Kackman, Public Works Director, Planning Department, Coeur d'Alene Tribe, (208) 686-2066, 05 March 2011 The proposed action will not adversely affect the Tribe, low-income populations, or minority populations.
	PERSONAL CONTACT: Brenda Morris, Utility Operator, City of Worley, (208) 686-1258, 11 March 2011. The proposed action will not have a disproportionately high and adverse human health or environmental impact on the Tribe, low-income populations, or minority populations.
32. Will the proposed action adversely affect community noise levels?	No – PERSONAL CONTACT: Jim Kackman, Public Works Director, Planning Department, Coeur d'Alene Tribe, (208) 686-2066, 05 March 2009 Community noise levels will not be adversely affected. PERSONAL CONTACT: Brenda Morris, Utility Operator, City of Worley, (208) 686-1258, 11 March 2011. Community noise levels will not be adversely affected.
33. Wilderness Act: Will the proposed action adversely impact a Wilderness Area? (Wilderness Areas are specifically designated areas of land.)	No – PRINTED MATERIAL: Wilderness Map prepared by the <i>National Atlas of the United States of America</i> ® (<i>August 2004</i>), No wilderness areas are reported in the area for the proposed project. http://www.wilderness.net/index.cfm?fuse=NWPS&sec=stateView&state=id↦=mtnorthwestidn orthwaeast

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

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Tribe:	Coeur d'Alene Tribe	Reservation: City of Worley	
Project, Program, Grant Description & Location:		09-K98: Comprehensive Assessment of the Worley Wastewater System. Option #1: Open cut with Replacing manholes with Precast Manholes.	
		Worley, Idaho	

Action includes purchasing, construction, alteration, renovation, or leasing activities, new and continuing activities, including projects and programs entirely or partly financed, assisted, conducted, regulated, or approved by the Indian Health Service.

Consideration	Will the proposed action/activity affect the Consideration? Provide supporting information for your responses and explain any mitigations to be implemented.
34. <u>Farmland Protection Policy Act:</u> Will the proposed action convert significant agricultural lands to non-agricultural uses and exceed 160-point score on the farmland impact rating?	No – PERSONAL CONTACT: Jim Kackman, Public Works Director, Planning Department, Coeur d'Alene Tribe, (208) 686-2066, 05 March 2011 – see attached letter. No agricultural lands will be affected by this project.
35. Coastal Zone Management Act: Will the proposed action directly affect a Coastal Zone in a manner inconsistent with the State Coastal Zone Management Plan? (All Federal programs or projects in the coastal zone must comply with the consistency provisions of the Act. Each coastal state should have a state office to manage its coastal zone development and use.)	No – PRINTED MATERIAL: U.S. Department of Commerce, National Oceanic and Atmospheric Association, Office of Ocean and Coastal Resource Management. Information for Washington State's Coastal Program available online at http://coastalmanagement.noaa.gov/mystate/wa.html – see attachment. The proposed action is not located in a coastal zone.
36. Wild and Scenic Rivers Act: Will the proposed action adversely affect a wild, scenic, or recreational river area or create conditions inconsistent with the character of the river? (A consideration for activities that are in or near any wild and scenic waterway including construction of stream/river crossings, intake structures, outfalls, etc.)	No – PRINTED MATERIAL: National Park Service, National Center for Recreation and Conservation, Nationwide Rivers Inventory, available online at http://www.nps.gov/ncrc/programs/rtca/nri/states/id.html . There are no listed river segments near the proposed project.

<u>Based on the available record, the IHS has made the following determination on the proposed activity/action/undertaking</u>. The record was examined to identify potential extraordinary or exceptional circumstances which would require further environmental review. (State if an Environmental Impact Statement or Environmental Assessment is needed, or which Categorical Exclusion applies to this activity/action/undertaking).

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

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Tribe:	Coeur d'Alene Tribe	Reservation: City of Worley	
Project, Program, Grant Description & Location:		09-K98: Comprehensive Assessment of the Worley Wastewater System. Option #1: Open cut with Replacing manholes with Precast Manholes. Worley, Idaho	
		n, alteration, renovation, or leasing activities, new and continuing activities, including projects and programs entirely or gulated, or approved by the Indian Health Service.	

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

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Tribe: Coeur d'Alene Tribe Reservation: City of Worley COMPREHENSIVE ASSESSMENT OF THE WORLEY WASTEWATER TREATMENT SYSTEM SERVING THE CITY OF WORLEY, COUER D'ALENE TRIBE, COUER D'ALENE INDIAN RESERVATION IDAHO Project, Program, Grant Description & Location: I certify that to the best of my knowledge and ability the information presented herein is true and correct (enter appropriate information in the shaded blanks):

(1)		
Signature (Grantee or responsible, knowledgeable person who	Environmental Engineer	Date
completed this document)	(e.g., as appropriate, Tribal chair, utility director, diabetes coordinator, project/facility engineer, etc., or Federal official or officer, etc.)	
(2)		
Signature Service Unit Director/District Engineer	Title or Position (Service Unit Director, District Engineer)	Date
(3)		
Signature IHS Area Program Coordinator/Manager	Title or Position (e.g., as appropriate, IHS diabetes coordinator, facility manager/director, DSFC Director, etc.)	Date
(4)	AREA NEPA COORDINATOR	
Signature Area NEPA Coordinator		Date
(5)	ASSOCIATE DIRECTOR, AREA OEHE	
Signature, Associate Director, Area OEHE		Date
(6)	DIRECTOR, ENGINEERING SERVICES	
Signature, Director, ES (as appropriate)		Date

*Signatories may vary at the IHS Area. At minimum, signatures (1) through (4) are required, and signature (5) is required for all non-OEHE actions or activities

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

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Tribe: Coeur d'Alene Tribe Reservation: City of Worley

COMPREHENSIVE ASSESSMENT OF THE WORLEY WASTEWATER TREATMENT SYSTEM SERVING THE CITY OF WORLEY, COUER D'ALENE TRIBE, COUER D'ALENE INDIAN RESERVATION IDAHO

Project, Program, Grant Description & Location:

Attachment D Environmental Compliance Checklist

I. Compliance Review for Environmental Laws

-Continue to next page-

D. Fish and Wildlife Coordination Act
X No water body is affected, modified, or controlled by the project.
\square A water body is affected, modified, or controlled by the project.
☐ Coordination with the U.S. Fish and Wildlife Service conducted.
☐ No recommendations offered by the U.S. Fish and Wildlife Service.
☐ Recommendations provided by the U.S. Fish and Wildlife Service.
\square Project conditions are required. See explanation in Section V.
E. Clean Air Act
X No permanent air emissions will result from the project.
☐ Project is located in an attainment area. (A zone within which the level of a pollutant is considered to meet United States National Ambient Air Quality Standards. These standards are per pollutant, so it is possible for a zone to meet these standards for a certain substance and not for another).
☐ Project is located in a non-attainment area. (A non-attainment designation carries certain regulatory consequences).
☐ Coordination with the Environmental Protection Agency conducted.
☐ Project conditions are required. See explanation in Section V.
F. Farmland Protection Policy Act
\boldsymbol{X} No designated prime or unique farmland will be affected by the project.
☐ Project causes unnecessary or irreversible conversion of designated prime or unique farmland.
☐ Coordination with Natural Resource Conservation Commission conducted.
☐ Farmland Conversion Impact Rating Form AD-1006 completed.
\square Project conditions are required. See explanation in Section V.
-Continue to next page-

G. Migratory Bird Treaty Act
X No take of migratory birds will occur from the project.
☐ Project has potential to take migratory birds.
☐ Coordination with the U.S. Fish and Wildlife Service conducted.
☐ Project conditions are required. See explanation in Section V.
H. Bald and Golden Eagle Protection Act
X No take of bald or golden eagles will occur from this project.
☐ Project has potential to take bald and/or golden eagles.
☐ Coordination with the U.S. Fish and Wildlife Service and appropriate state agencies conducted.
☐ Project conditions are required. See explanation in Section V.
I. Noise Control Act
X No permanent noise will result from the project.
☐ Project will result in noise that jeopardizes the health and welfare of Americans.
☐ Coordination with the Environmental Protection Agency conducted.
☐ Project conditions are required. See explanation in Section V.
-Continue to next page-

II. Compliance Review for Executive Orders

A. Executive Order 11988 – Floodplains
X No effect on floodplains/flood levels will occur and project is located outside Floodplain.
☐ Located in Floodplain or effects on floodplains/flood levels.
\square No adverse effect on floodplain or flood levels.
☐ Beneficial effects on floodplain occupancy/values.
☐ Possible adverse effects associated with floodplain/flood levels.
☐ Coordination with the Environmental Protection Agency conducted.
☐ Project conditions are required. See explanation in Section V.
B. Executive Order 11990 - Wetlands
X No effect on wetlands will occur and project is located outside of wetlands.
☐ Located in wetlands or effects to wetlands.
☐ Beneficial effects on wetlands will occur.
\square Possible adverse effects associated with constructing in or near wetlands.
☐ Coordination with the Corps Regulatory conducted.
☐ Project conditions are required. See explanation in Section V.
C. Executive Order 12898 – Environmental Justice
\mathbf{X} No environmental justice issues are associated with the project.
☐ Low income or minority population in or near the project area.
☐ No disproportionately high or adverse impact on low income or minority populations will occur.
☐ Disproportionately high or adverse effects on low income or minority populations will occur.

-Continue to next page-

Safety	Risks		r 13045 - Protection of Children from Environmental Health and			
X No health or safety risks to children are associated with the project.						
☐ Children (five and under) or elderly (65 or older) in or near the project area.						
		☐ No disproportionately high or adverse impact on children or the elderly will occur.				
	☐ Disproportionately high or adverse effects on children or the elderly will occur).					
III. Other Relevant Laws, Environmental Regulations, or Executive Orders						
X No other laws, environmental regulations, or executive orders have been identified that have bearing on the proposed work.						
☐ Other laws, environmental regulations, or executive orders include:						
IV.	Extr	aorc	linary Circumstances			
Based on review of compliance with other environmental laws and Executive Orders, and in consideration of other environmental factors, review the project for extraordinary circumstances. Note: A "Yes" under any circumstance may require the preparation of a fully executed Environmental Assessment. Yes No						
	X	(i)	The scope is greater than normally experienced for the particular action being implemented.			
	X	(ii)	The proposed action has a high level of controversy.			
	X	(iii)	Potential for degradation, even though slight, of an already degraded condition.			
-Continue to next page-						

Extraordinary Circumstances (Continued)

Yes	No					
	X	(iv)	Employment of unproven or unique technology.			
	X	` /	Presence of hazardous or toxic substances at levels which exceed Federal, state, or local regulations or standards.			
	X	(vi)	Potential for adverse effects on health or safety.			
	X	(vii)	Potential to violate Federal, state, local, or tribal law.			
	X	, ,	Potential for significant cumulative impacts when the proposed action is combined with other past, present, and reasonably foreseeable future actions, even though the impacts of the proposed action may not be significant by themselves.			
V. Required Project Conditions						
X No additional project conditions are required.						
☐ Project conditions are required. (Include sub-heading and describe the required project conditions).						

Attachment E Corps Letter to THPO



DEPARTMENT OF THE ARMY

SEATTLE DISTRICT, CORPS OF ENGINEERS P.O. BOX 3755 SEATTLE, WASHINGTON 98124-3755

REPLY TO ATTENTION OF

Environmental and Cultural Resources Branch

Jill Maria Wagner, Ph.D.
Tribal Historic Preservation Officer
Natural Resources Department
Coeur d'Alene Tribe
P.O. Box 408
Plummer, ID 83851

MAY 0 5 2017

SUBJECT: City of Worley Wastewater Collection System Improvement Project: Kootenai

County, ID

Dear Dr. Wagner:

The U.S. Army Corps of Engineers (Corps) is providing the City of Worley Federal 595 grant funds for their wastewater collection system improvement project in Kootenai County, Idaho. The purpose of the undertaking is improve the wastewater collection system in the City. As part of our review under Section 106 of the National Historic Preservation Act, the Corps has determined that the proposed federal action is an undertaking that has the potential to affect historic properties. We are notifying you of the undertaking, but given its nature and scope, propose to expedite consultation by addressing the multiple steps of 36 C.F.R § 800.3 through § 800.6 in this letter as provided at 36 C.F.R. § 800.3(g). This letter provides a brief project description, documents the area of potential effect (APE), summarizes the efforts to identify historic properties, and provides agency findings. We request your agreement with our finding that there will be no historic properties affected by the proposed undertaking.

The City of Worley's (City) wastewater collection system was built in the 1960s and is comprised of concrete and PVC pipes with brick and concrete manholes, which are beyond their useful life. The system has deteriorated to a point where a large amount of Infiltration and Inflow (I&I) is entering the system. The consequence is partially treated wastewater being discharged to Rock Creek when the influent wastewater is not being retained in the lagoons long enough for adequate treatment. Additionally, the excess water from the I&I dilutes the wastewater and decreases the efficiency of the treatment process. This project will provide immediate relief to an unmaintainable system that has become a liability to the City. Under the preferred alternative, action pipes and manholes would be replaced or repaired throughout the city (Figure 1). All work would occur within the City's rights of way and would include trenching and replacement or repair of existing systems. All activity would occur in previously disturbed soils or roadways.

The undertaking is located in Township 47 North, Range 5 West, Sections 23 and 24 in Kootenai County, Idaho (Figure 2). The Corps has determined the APE for the City of Worley Wastewater Collection System Improvement Project to include all areas identified for maintenance and replacement, as well as all access and staging areas. The Corps believes that the APE is sufficient to identify and consider both direct and indirect effects of the proposed project.

The Corps has determined that due to the limited nature of the undertaking, as well as the high level of disturbance from the original construction of the sewer and road system, there is little to no likelihood for cultural resources to be present within the project APE. While archival research indicates that the wastewater treatment system was originally installed in the 1960s and meets the minimum age threshold of 50 years, it has been subject to routine maintenance and repair actions. As the proposed repair does not alter the proposed alignment, the system infrastructure will remain intact. Based on this information, the Corps has found that there will be no historic properties affected by the proposed project.

The Corps requests your review and agreement with our finding that there will be no historic properties affected. If you have any questions or desire additional information, please contact the project Archaeologist, Ms. Ashley Dailide, at ashley.m.dailide@usace.army.mil or (206) 764-6942. I may be contacted at evan.r.lewis@usace.army.mil or (206) 764-6922.

Sincerely

Evan R. Lewis, Chief Environmental and Cultural

Resources Branch

Enclosure

Figure 1. Vicinity Map



Figure 2. Project APE

